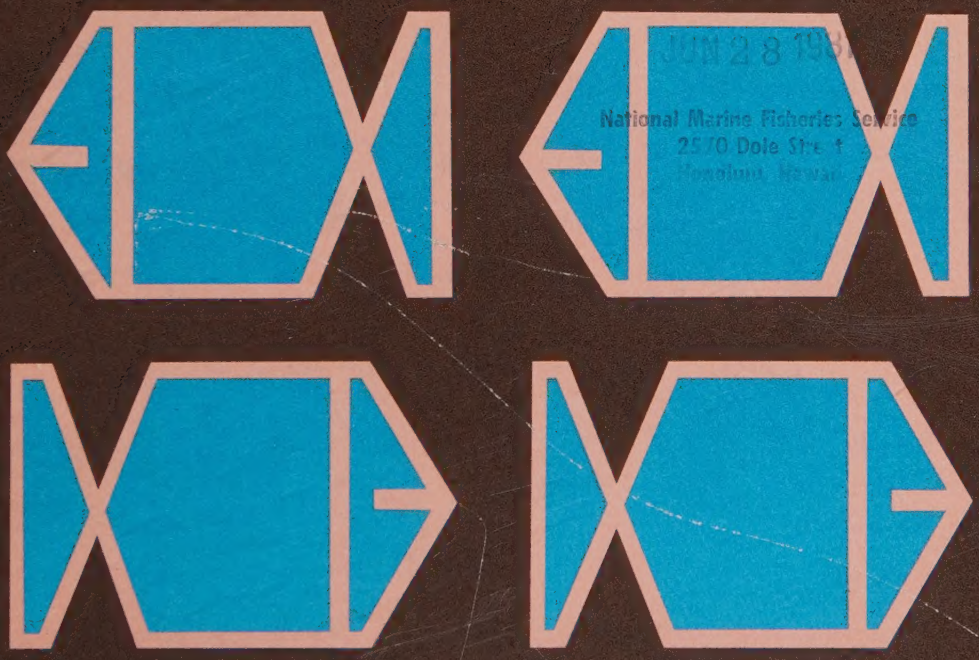
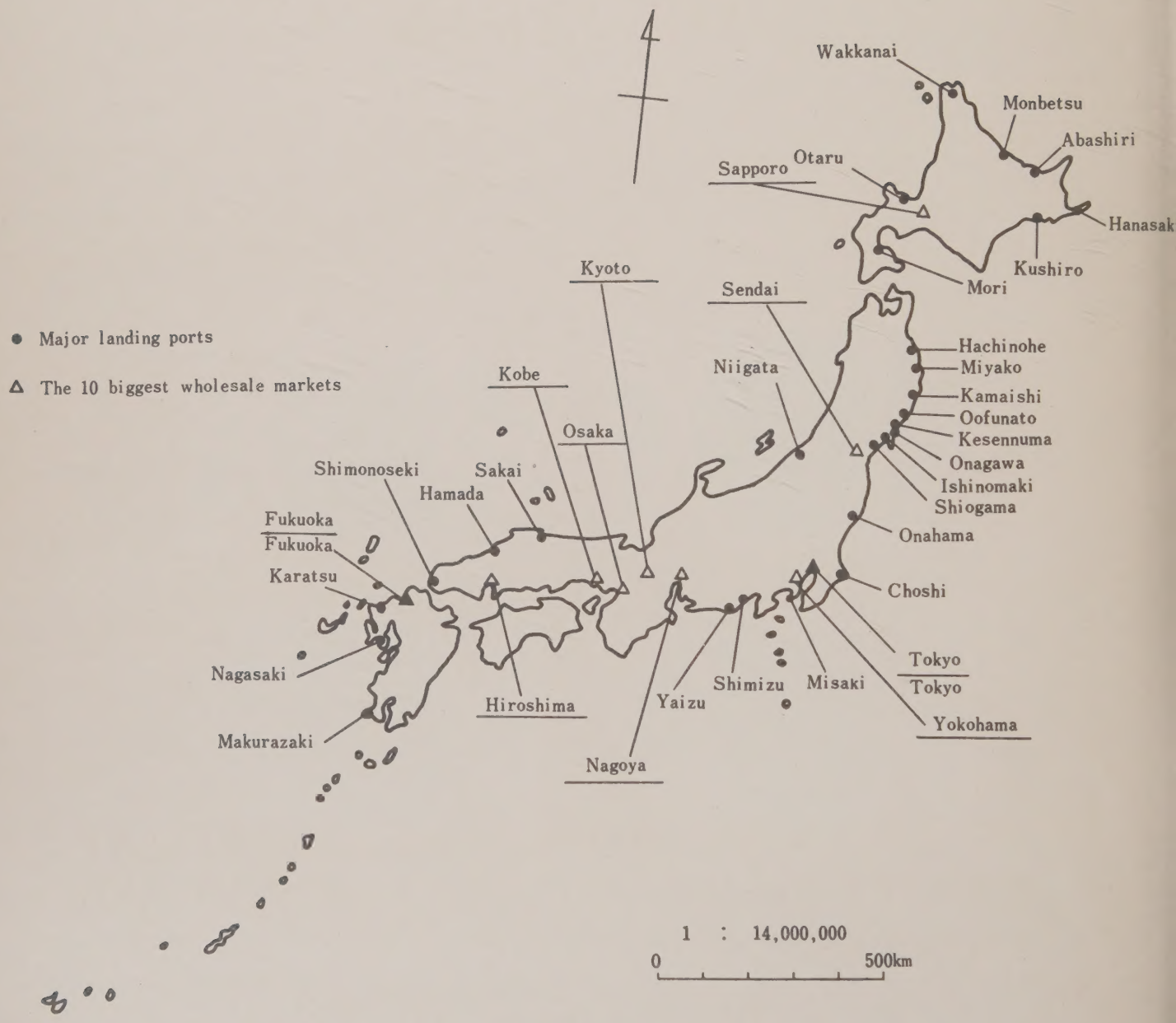
# FISHERIES STATISTICS OF JAPAN 1979



JUN 28 1982
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii

STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES
GOVERNMENT OF JAPAN

## MAJOR LANDING PORTS AND THE 10 BIGGEST WHOLESALE MARKETS IN JAPAN



# FISHERIES STATISTICS OF JAPAN

# 1979

STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES
GOVERNMENT OF JAPAN

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# FOREWORD

The bulletin "Fisheries Statistics of Japan" has been published yearly since 1963 to introduce overseas readers the outline of the current fishery situation of Japan. It contains major statistical tables on fishery production, structure, marketing and economy.

Japan traditionally depends much upon marine living resources for the supply of animal protein to the people, and it is generally forecasted that this situation will not be changed largely in the future. The total catch of Japan has been maintained the level over ten million metric tons yearly since 1972, but now Japanese fisheries operate under such severe circumstances as the restriction of fishing grounds created by establishing the "200 Mile Fishing Zone" and the increased cost of fishing operation because of the high price of fuel. On the other hand, the effective utilization of fisheries resources in the water around Japan is becoming important for Japanese fisheries, and the improvement and development project for the coastal fishing grounds is under way by the government.

We hope, under these conditions, this bulletin would benefit for readers to understand the situation of the current Japanese fishery. Lastly, we would much appreciate it if readers could provide us any suggestions to improve the future issue of the bulletin.

January, 1981

A. Sekine

AKIO SEKINE

Director
Statistics and Information Department
Ministry of Agriculture, Forestry and Fisheries

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| IV-1, 2 | Fisheries |
| Table No. II-3, 4 | Fisheries Agency<br>Ministry of Agriculture, Forestry and Fisheries |
| Table No. III-5 ~ 7 | Bureau of Customs, Ministry of Finance |
| Table No. III-8 | Minister's Secretariat<br>Ministry of Agriculture, Forestry and Fisheries |
| Table No. III-9,10 | Bureau of Statistics<br>Office of the Prime Minister |
| Reference Table 1, 2 | F. A. O. |

2 Period of inquisition

As a principle, the statistics in this bulletin are inquired by the calender year but the figures of the whaling in the Antarctic Ocean are given for the "Whaling year" (from Nov. 1978 to Mar. 1979)

3 Symbols

The following symbols are used in this publication:

[ 0 ] means "Less than the unit amount"

[---] means "Unknown or not available"

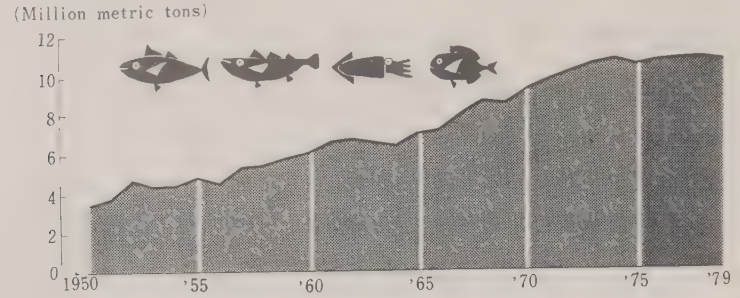
[ - ] means "No record"

[ Δ ] means "Minus"

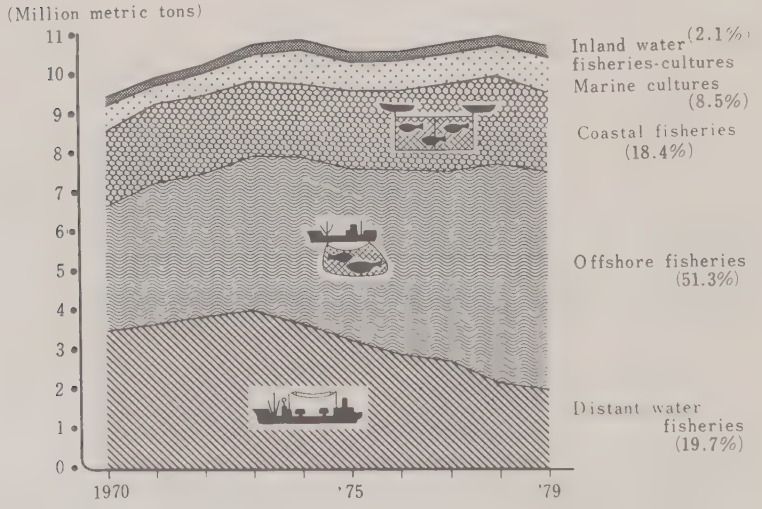
# STATISTICAL CHARTS

# I. FISHERY PRODUCTION

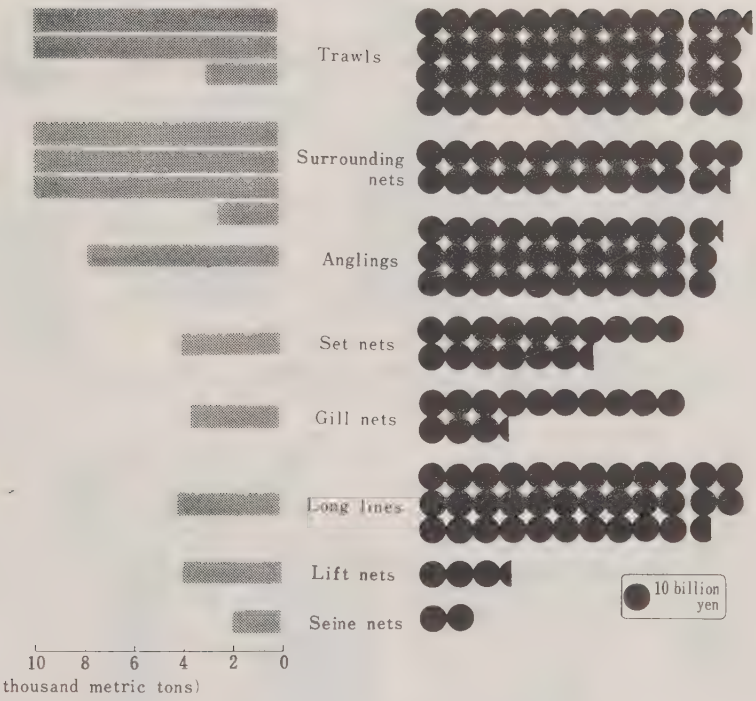
## 1. Annual Trend of Total Catch, 1950～1979



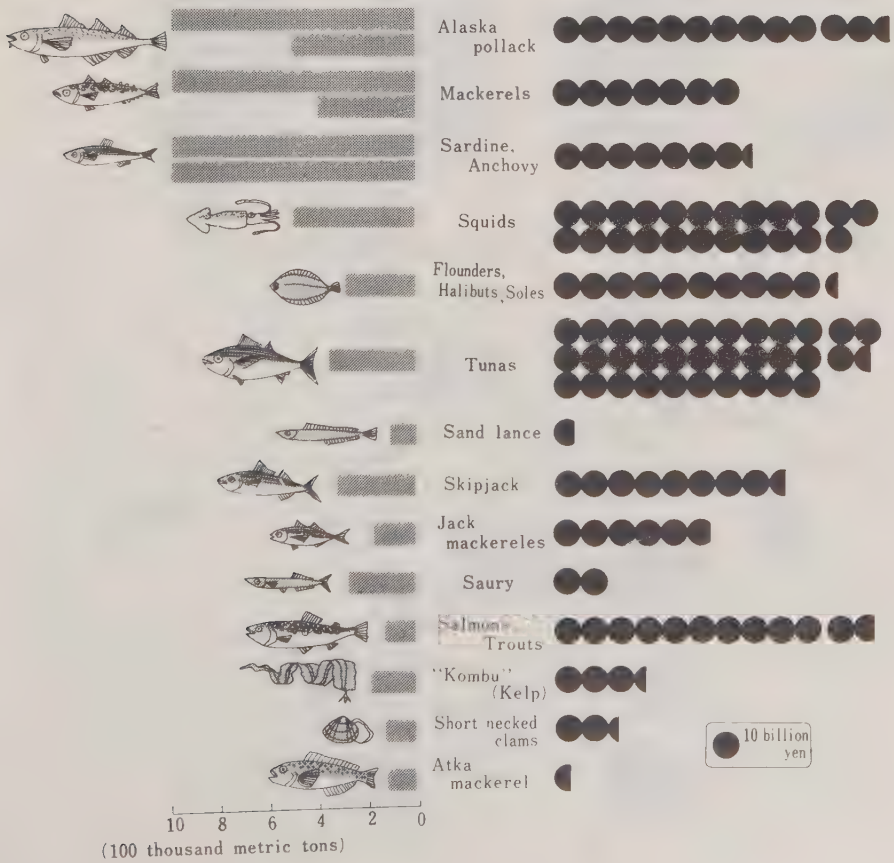

## 2. Total Catch by Type of Fisheries, 1970～1979



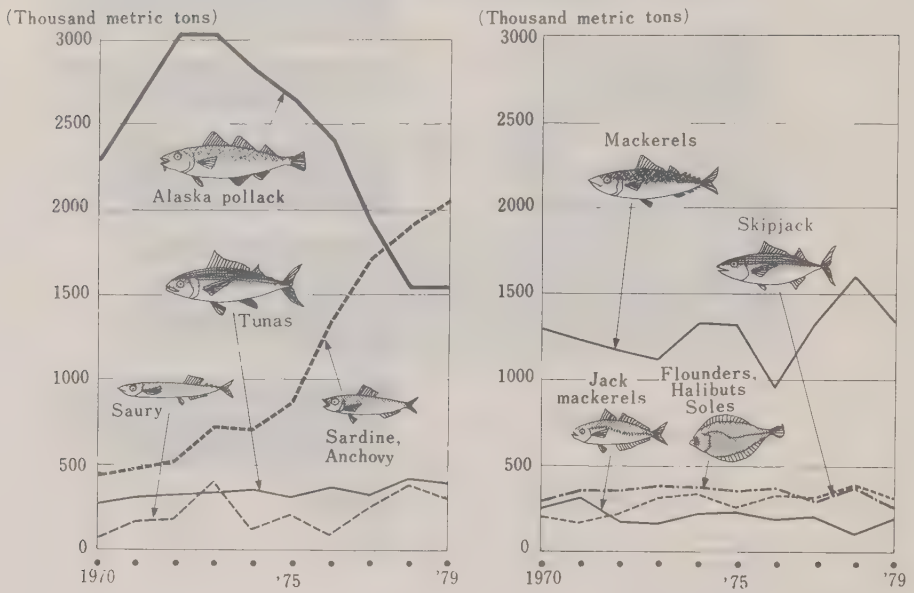
## 3 Catch by Type of Fishery, 1979



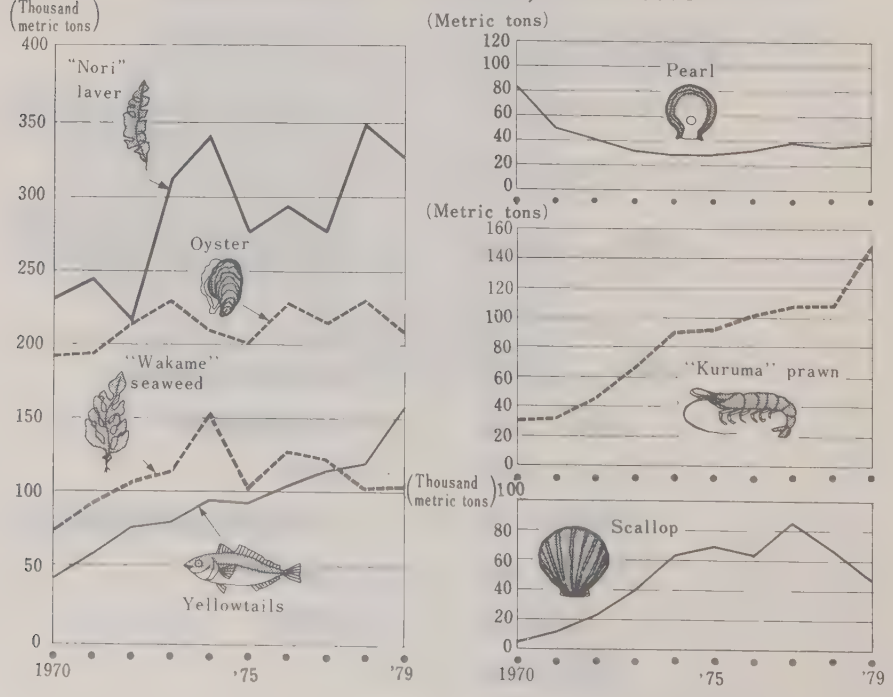

## 4 Catch by Major Fish, 1979



## 5 Catch by Major Fish, 1970～1979




## 6 Yield of Marine Cultures, 1970～1979



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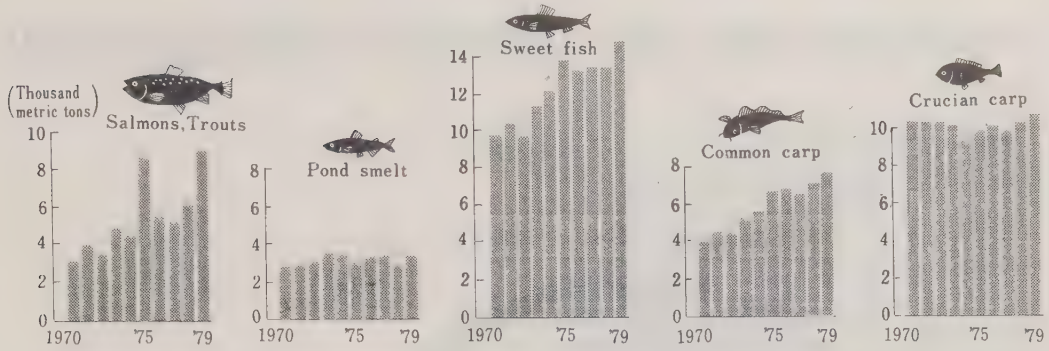
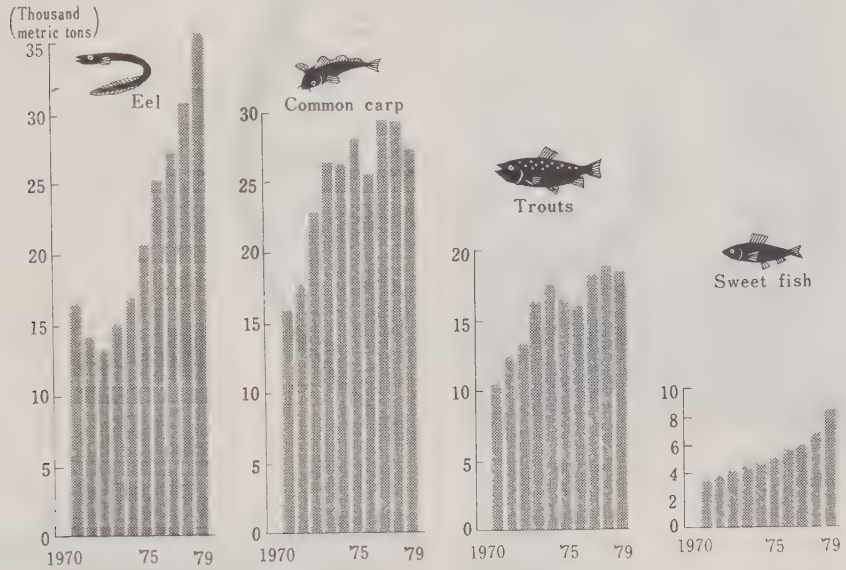
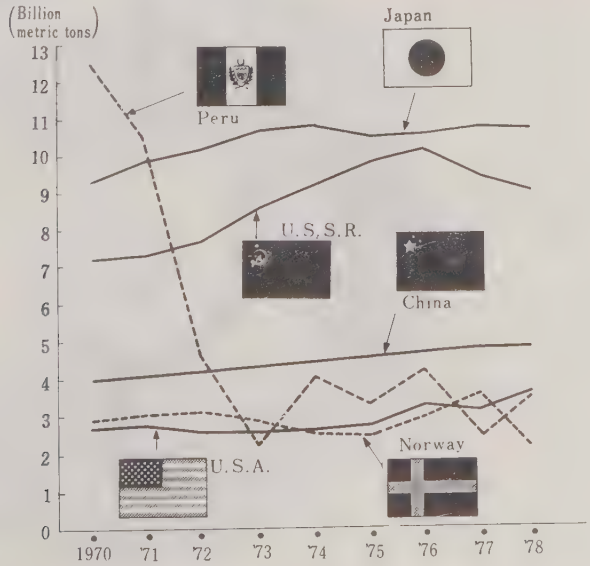



## 8 Yield of Major Inland Water Culture Fish, 1970～1979

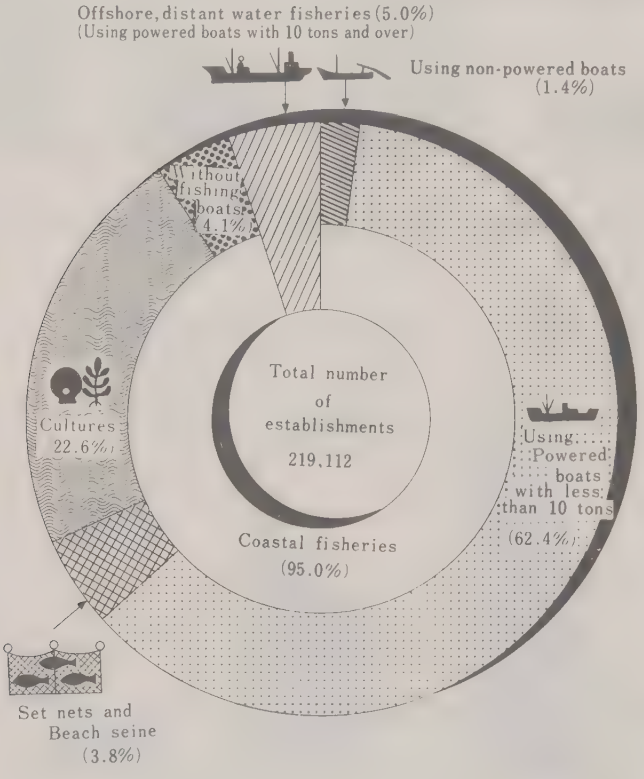



## 9 Catch of the World by Countries, 1970～1978

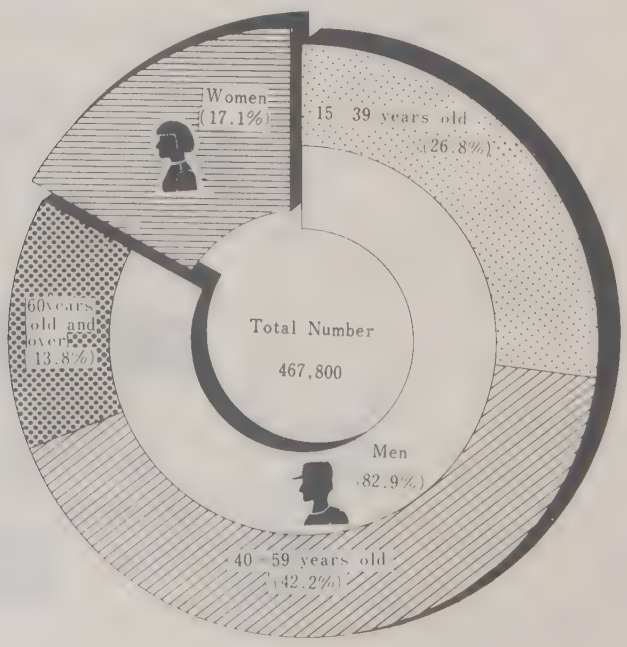


# Ⅱ STRUCTURE OF FISHERY PRODUCTION

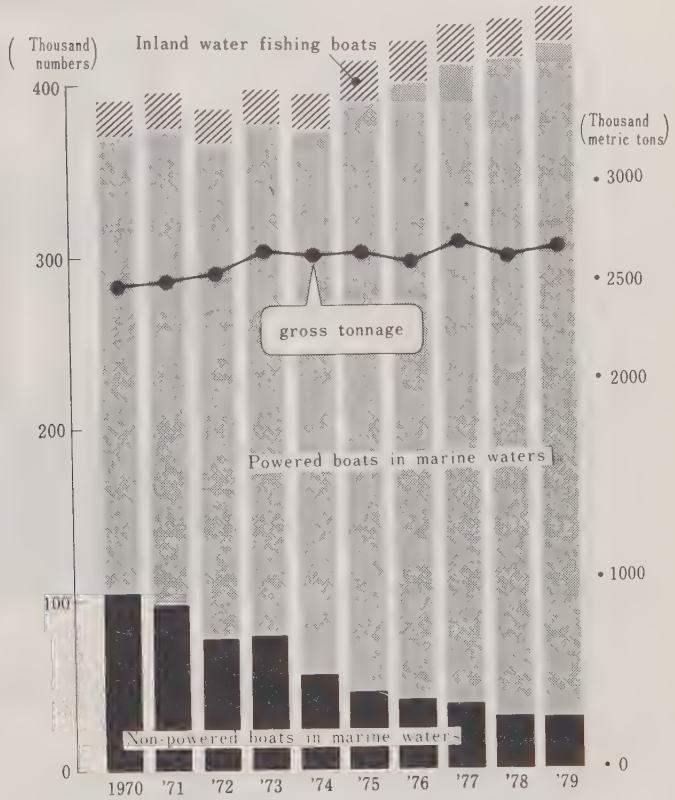
## 1 Number of Marine Fishery Establishments, 1979



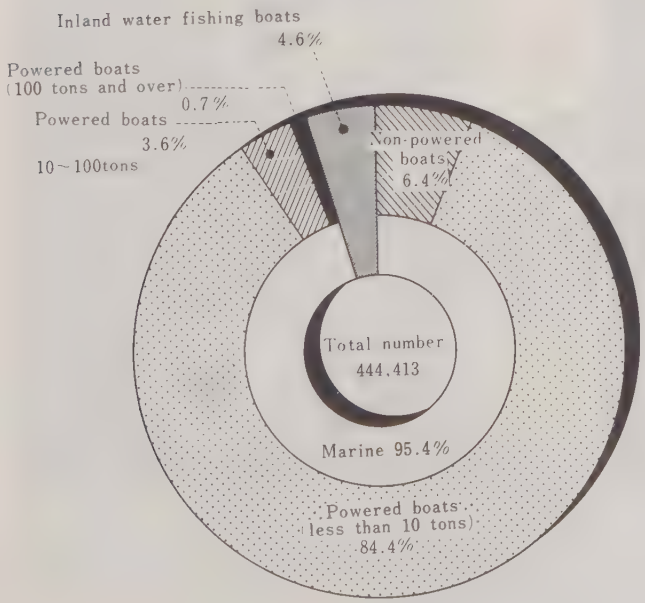

## 2 Number of Marine Fishery Workers, 1979



## 3 Number of Fishing Boats, 1970～1979

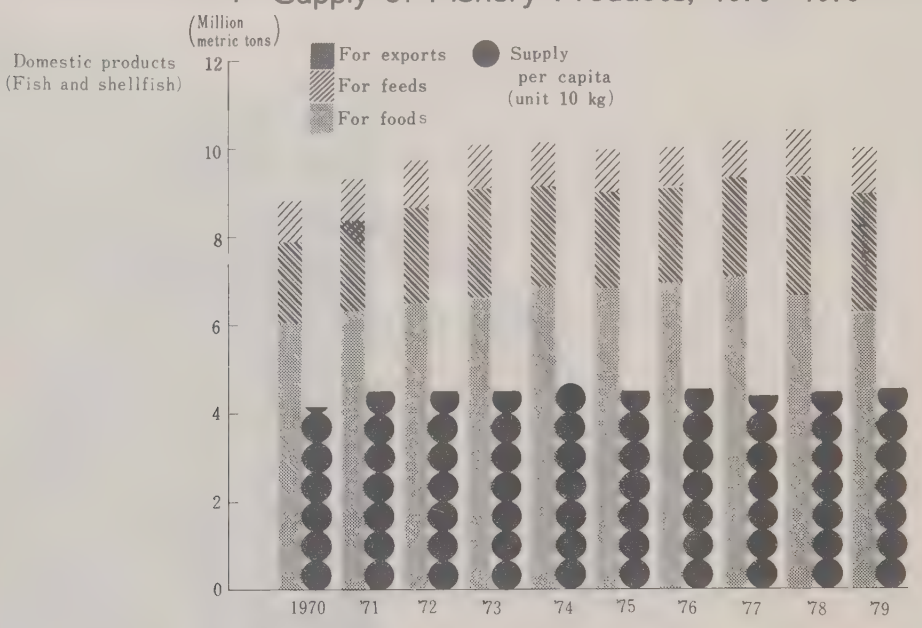



## 4 Number of Fishing Boats, 1979

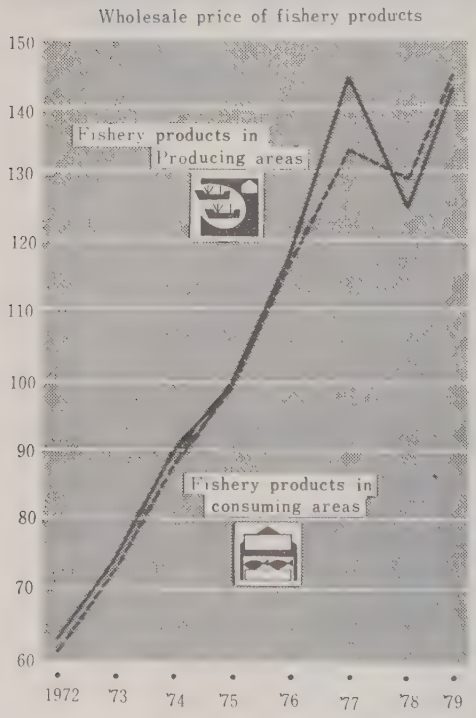


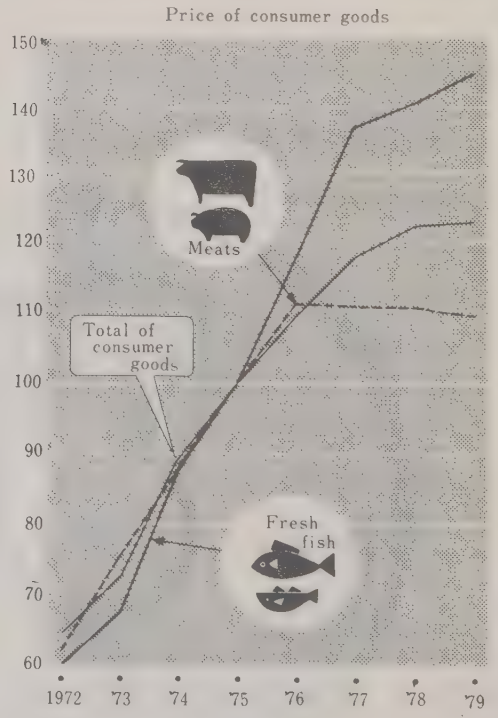
# III MARKETING OF FISHERY PRODUCTS

## 1 Supply of Fishery Products, 1970～1979

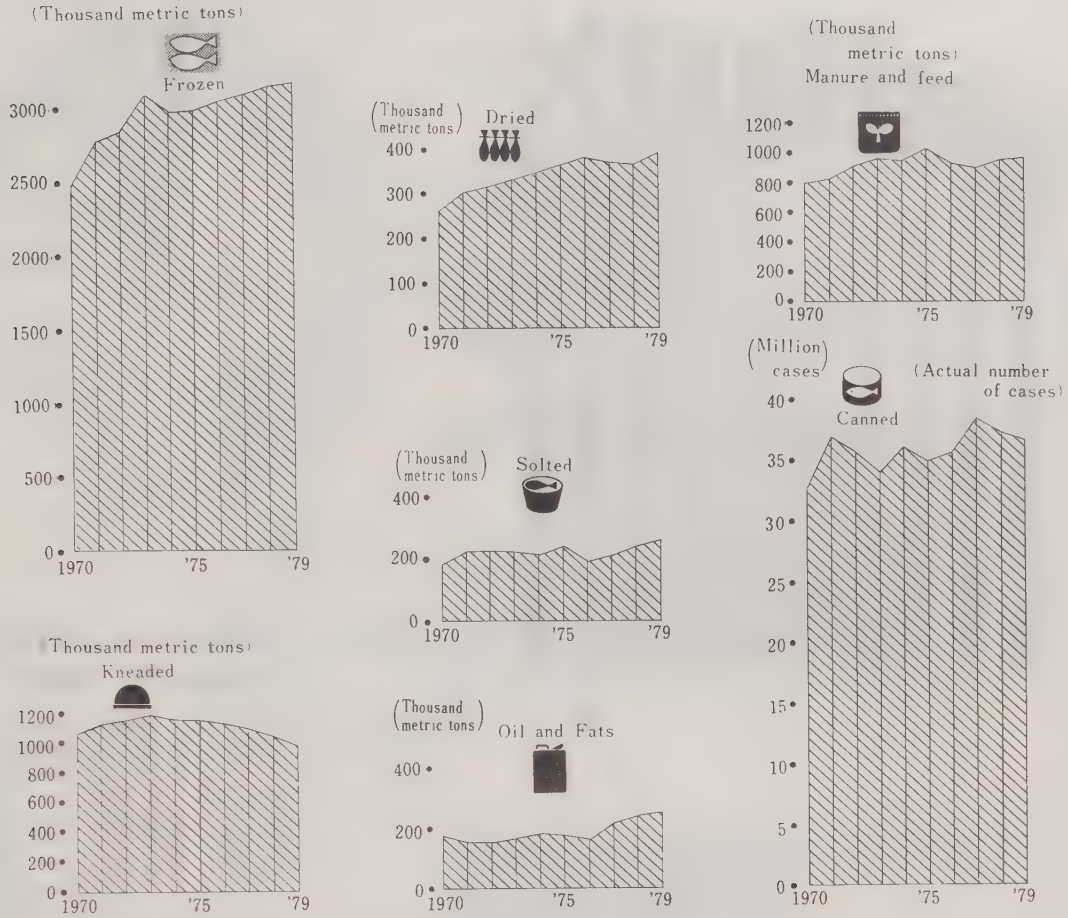



## 2 Price Index of Fishery Products (1975=100) 1972～1979

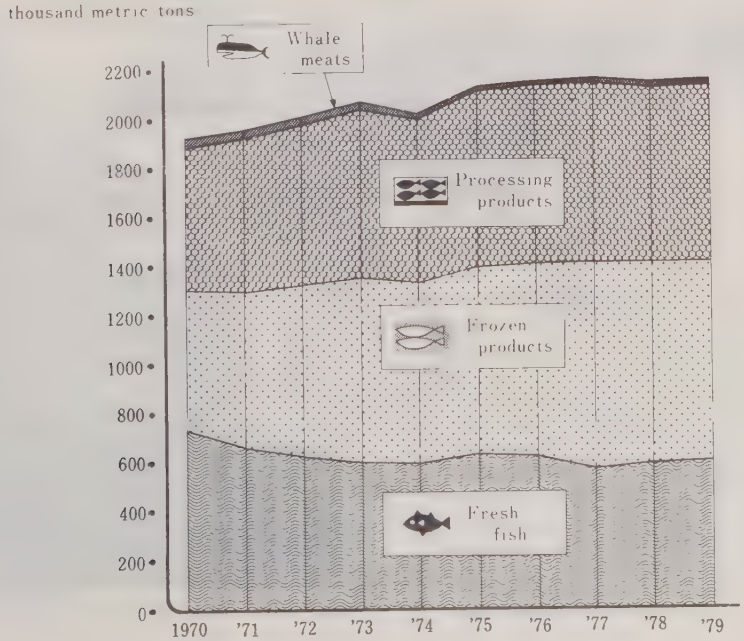


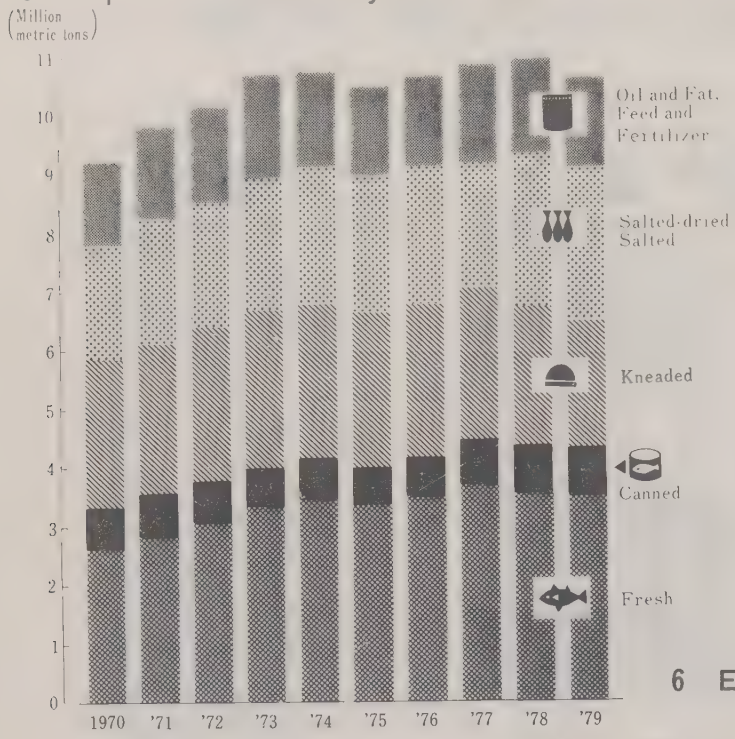
## 3 Fishery Processing Products, 1970～1979



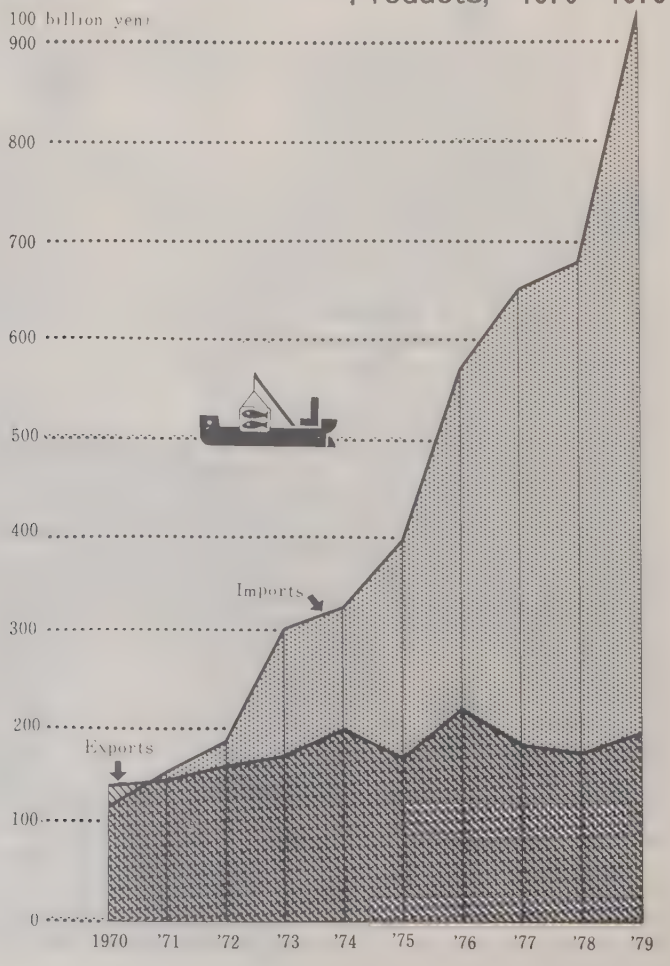

## 4 Volume Transacted by Group of Commodity in Six Large Central Wholesale Markets, 1970～1979



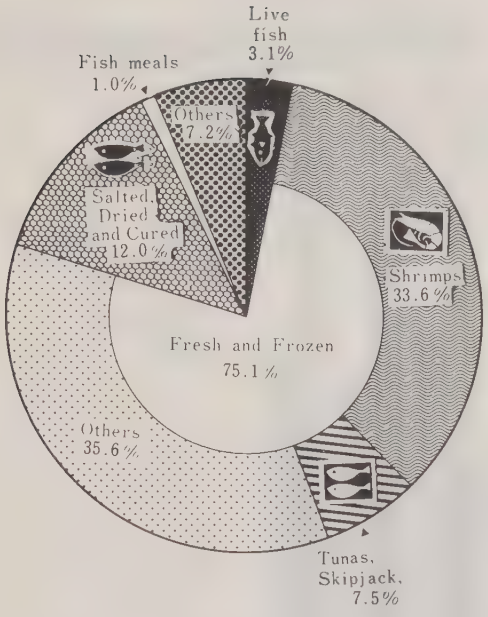
## 5 Disposition of Fishery Products, 1970～1979

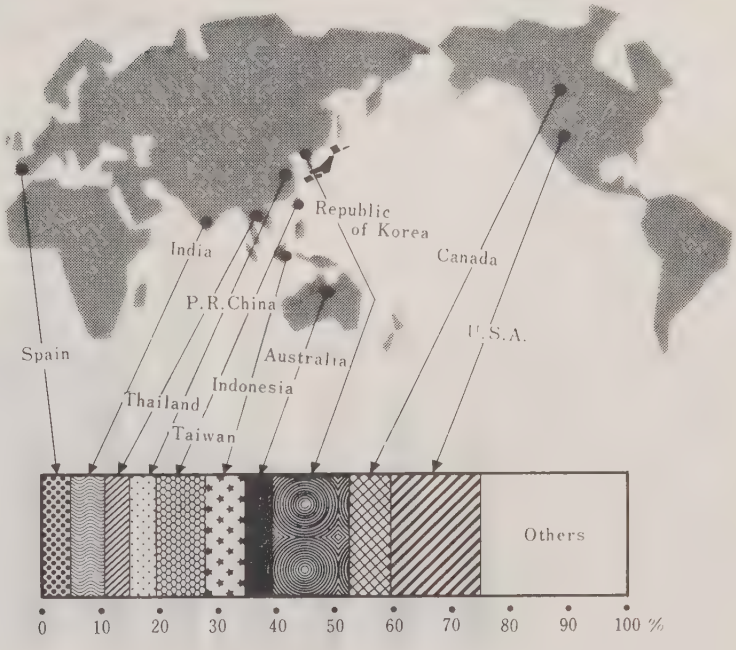



## 6 Exports and Imports of Fishery Products, 1970～1979

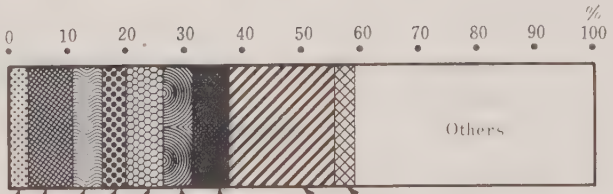


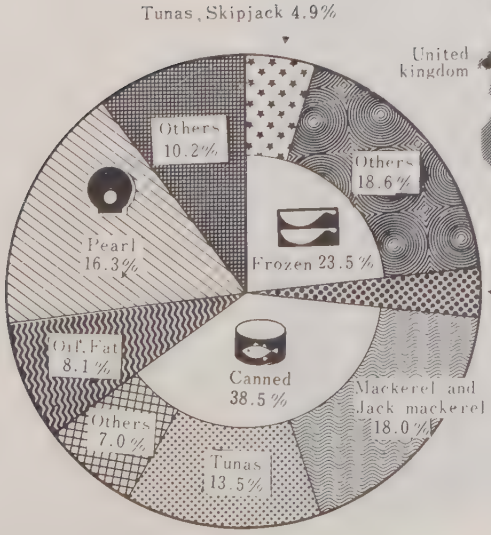
## 7 Imports of Fishery Products, 1979 (in value)




## 8 Exports of Fishery Products, (in value) 1979

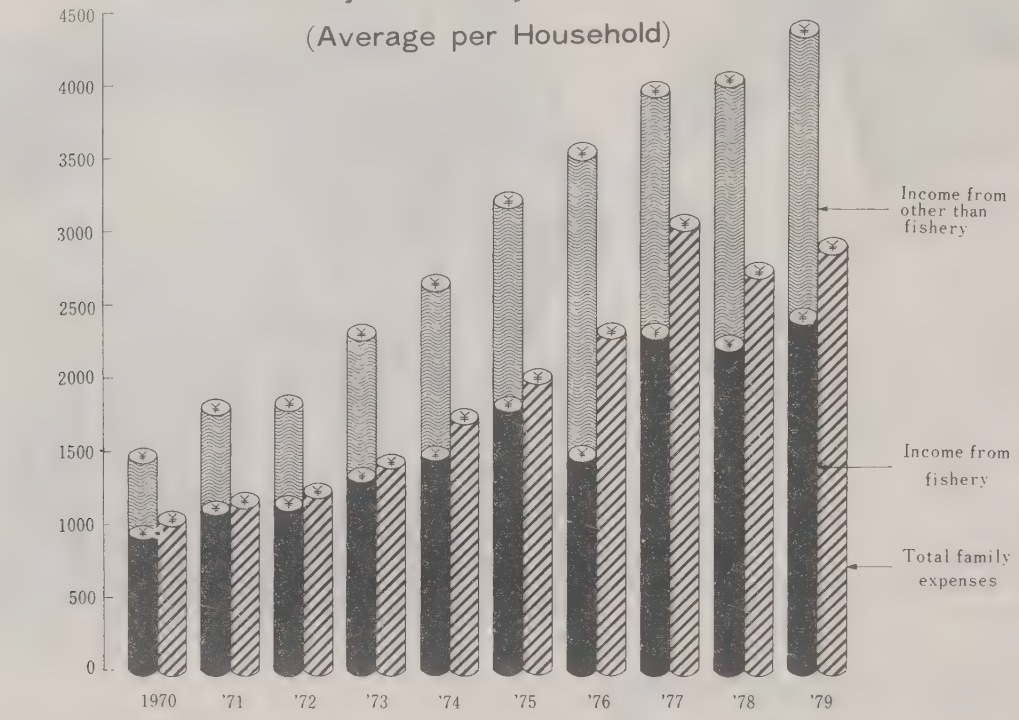




# Ⅳ. ECONOMY OF FISHERY ESTABLISHMENTS

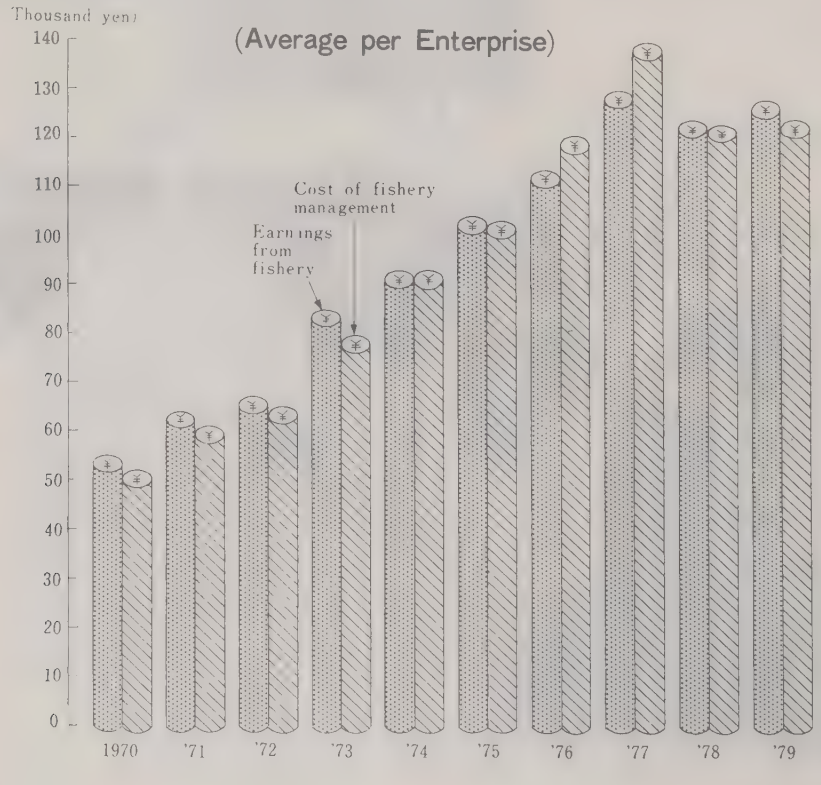
## 1. Economy of Fishery Household, 1970～1979

(Average per Household)




## 2. Economy of Middle and Small Size Fishery Enterprise, 1970～1979

(Average per Enterprise)



# STATISTICAL TABLES

# I FISHERY PRODUCTION

## I – 1 SUMMARY OF CATCH BY FISHERY SECTOR, 1950~1979

Unit { Quantity: Thousand metric tons
Value : Hundred million yen

| Year | Total | | Marine Fisheries | | Marine Cultures | | Inland Water Fisheries | | Inland Water Cultures | | Whalings | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Numbers | Value |
| 1950 | 3,373 | --- | 3,255 | --- | 48 | --- | 63 | --- | 5 | --- | 5,332 | --- |
| 1951 | 3,930 | --- | 3,774 | --- | 88 | --- | 60 | --- | 6 | --- | 6.335 | --- |
| 1952 | 4,823 | --- | 4,646 | --- | 113 | --- | 53 | --- | 9 | --- | 7,816 | --- |
| 1953 | 4,598 | --- | 4,387 | --- | 144 | --- | 57 | --- | 8 | --- | 6,631 | --- |
| 1954 | 4,541 | --- | 4,304 | --- | 145 | --- | 82 | --- | 9 | --- | 9,591 | --- |
| 1955 | 4,907 | --- | 4,658 | --- | 154 | --- | 82 | --- | 11 | --- | 11,866 | --- |
| 1956 | 4,772 | 2,310 | 4,488 | 2,012 | 180 | 206 | 90 | 62 | 13 | 30 | 14,124 | 160 |
| 1957 | 5,407 | 2,582 | 5,067 | 2,303 | 244 | 174 | 81 | 73 | 14 | 31 | 15,439 | 213 |
| 1958 | 5,506 | 2,569 | 5,198 | 2,257 | 214 | 205 | 78 | 70 | 15 | 37 | 19,922 | 196 |
| 1959 | 5,884 | 2,877 | 5,568 | 2,535 | 225 | 236 | 75 | 69 | 15 | 36 | 20,527 | 221 |
| 1960 | 6,192 | 3,448 | 5,817 | 2,983 | 284 | 338 | 74 | 80 | 15 | 47 | 19,649 | 234 |
| 1961 | 6,710 | 3,952 | 6,287 | 3,340 | 322 | 455 | 81 | 93 | 18 | 64 | 20,848 | 267 |
| 1962 | 6,864 | 4,266 | 6,397 | 3,567 | 362 | 538 | 84 | 94 | 20 | 68 | 22,240 | 269 |
| 1963 | 6,698 | 4,830 | 6,200 | 3,988 | 389 | 650 | 84 | 98 | 23 | 94 | 22,373 | 309 |
| 1964 | 6,350 | 4,976 | 5,868 | 4,039 | 362 | 724 | 89 | 102 | 29 | 111 | 24,410 | 323 |
| 1965 | 6,908 | 5,558 | 6,382 | 4,516 | 380 | 816 | 113 | 101 | 33 | 126 | 26,986 | 376 |
| 1966 | 7,103 | 6,260 | 6,558 | 5,005 | 405 | 974 | 103 | 118 | 36 | 164 | 22,784 | 290 |
| 1967 | 7,851 | 7,026 | 7,241 | 5,677 | 470 | 1,074 | 97 | 109 | 42 | 166 | 21,088 | 252 |
| 1968 | 8,670 | 7,448 | 7,993 | 6,097 | 522 | 1,010 | 103 | 119 | 52 | 221 | 21,586 | 237 |
| 1969 | 8,613 | 8,488 | 7,976 | 6,928 | 473 | 1,130 | 112 | 144 | 52 | 285 | 17,409 | 221 |
| 1970 | 9,315 | 9,692 | 8,598 | 7,852 | 549 | 1,353 | 119 | 170 | 48 | 317 | 16,887 | 272 |
| 1971 | 9,909 | 10,894 | 9,149 | 8,957 | 609 | 1,374 | 101 | 214 | 50 | 349 | 16,419 | 314 |
| 1972 | 10,213 | 11,796 | 9,400 | 9,417 | 648 | 1,708 | 109 | 231 | 56 | 441 | 17,590 | 278 |
| 1973 | 10,763 | 14,641 | 9,793 | 11,564 | 791 | 2,252 | 114 | 299 | 64 | 528 | 14,012 | 273 |
| 1974 | 10,808 | 17,084 | 9,749 | 13,789 | 880 | 2,325 | 112 | 348 | 67 | 622 | 14,277 | 327 |
| 1975 | 10,545 | 18,870 | 9,573 | 15,204 | 773 | 2,536 | 127 | 417 | 72 | 713 | 13,427 | 337 |
| 1976 | 10,656 | 21,862 | 9,605 | 17,702 | 850 | 2,933 | 124 | 415 | 77 | 811 | 9,632 | 216 |
| 1977 | 10,757 | 25,451 | 9,688 | 20,513 | 861 | 3,522 | 126 | 486 | 82 | 930 | 9,299 | 206 |
| 1978 | 10,828 | 24,511 | 9,683 | 18,914 | 917 | 4,013 | 138 | 508 | 90 | 1,076 | 5,924 | 124 |
| 1979 | 10,587 | 26,473 | 9,477 | 20,559 | 879 | 4,222 | 136 | 527 | 95 | 1,164 | 4,918 | 107 |

# I — 2 SUMMARY OF CATCH BY SPECIES GROUP, 1950～1979

Unit: Thousand metric tons

| Year | Total | Marine Waters | | | | | Inland Waters | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fishes | Molluscs | Crus-taceans | Aquatic plants | Others | Fishes | Molluscs | Crus-taceans | Aquatic plants | Others |
| 1950 | 3,373 | 2,210 | 760 | 49 | 257 | 28 | 32 | 12 | 1 | 23 | 1 |
| 1951 | 3,930 | 2,572 | 922 | 56 | 290 | 22 | 30 | 12 | 1 | 23 | 2 |
| 1952 | 4,823 | 3,268 | 1,033 | 72 | 361 | 27 | 35 | 13 | 1 | 12 | 1 |
| 1953 | 4,598 | 3,253 | 889 | 70 | 292 | 27 | 37 | 15 | 1 | 12 | 2 |
| 1954 | 4,541 | 3,239 | 786 | 99 | 287 | 38 | 44 | 14 | 2 | 31 | 1 |
| 1955 | 4,907 | 3,541 | 802 | 106 | 310 | 53 | 52 | 14 | 3 | 25 | 1 |
| 1956 | 4,772 | 3,441 | 774 | 95 | 304 | 52 | 60 | 16 | 3 | 24 | 3 |
| 1957 | 5,407 | 3,877 | 894 | 108 | 402 | 27 | 64 | 24 | 5 | 2 | 4 |
| 1958 | 5,506 | 4,017 | 893 | 119 | 339 | 42 | 62 | 26 | 3 | 1 | 4 |
| 1959 | 5,884 | 4,267 | 1,027 | 119 | 337 | 44 | 59 | 26 | 1 | 1 | 4 |
| 1969 | 6,192 | 4,463 | 1,078 | 126 | 386 | 51 | 60 | 25 | 1 | 1 | 3 |
| 1961 | 6,710 | 5,015 | 985 | 138 | 425 | 49 | 66 | 28 | 2 | 1 | 3 |
| 1962 | 6,864 | 4,911 | 1,158 | 149 | 501 | 41 | 69 | 30 | 2 | 1 | 3 |
| 1963 | 6,698 | 4,653 | 1,303 | 159 | 425 | 51 | 72 | 33 | 1 | 1 | 2 |
| 1964 | 6,350 | 4,745 | 925 | 153 | 361 | 48 | 80 | 35 | 1 | 0 | 2 |
| 1965 | 6,908 | 5,093 | 1,082 | 132 | 406 | 52 | 86 | 56 | 1 | 0 | 2 |
| 1966 | 7,103 | 5,232 | 1,097 | 142 | 436 | 57 | 86 | 50 | 1 | 0 | 2 |
| 1967 | 7,851 | 5,742 | 1,225 | 149 | 534 | 60 | 92 | 42 | 2 | 0 | 2 |
| 1968 | 8,670 | 6,340 | 1,430 | 186 | 503 | 57 | 104 | 44 | 2 | 1 | 4 |
| 1969 | 8,613 | 6,561 | 1,238 | 153 | 444 | 53 | 107 | 51 | 3 | 1 | 3 |
| 1970 | 9,315 | 7,289 | 1,132 | 146 | 521 | 59 | 103 | 58 | 3 | 1 | 3 |
| 1971 | 9,909 | 7,913 | 1,065 | 126 | 587 | 66 | 107 | 36 | 5 | 1 | 2 |
| 1972 | 10,213 | 8,075 | 1,217 | 137 | 559 | 59 | 110 | 46 | 5 | 1 | 2 |
| 1973 | 10,763 | 8,645 | 1,130 | 141 | 653 | 64 | 124 | 45 | 6 | 1 | 2 |
| 1974 | 10,808 | 8,543 | 1,129 | 170 | 601 | 85 | 126 | 44 | 6 | 1 | 3 |
| 1975 | 10,545 | 8,341 | 1,156 | 147 | 627 | 75 | 141 | 48 | 7 | 1 | 3 |
| 1976 | 10,656 | 8,378 | 1,196 | 129 | 665 | 87 | 142 | 48 | 5 | 1 | 5 |
| 1977 | 10,757 | 8,461 | 1,223 | 126 | 638 | 101 | 150 | 49 | 6 | 0 | 3 |
| 1978 | 10,828 | 8,433 | 1,232 | 141 | 638 | 155 | 161 | 52 | 9 | 0 | 6 |
| 1979 | 10,587 | 8,277 | 1,187 | 134 | 639 | 117 | 168 | 49 | 8 | 0 | 6 |

# I — 3 CATCH IN QUANTITY

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total 1) | 10,545,148 | 10,655,903 | 10,756,794 | 10,828,289 | 10,586,990 |
| Marine Fisheries | 9,573,068 | 9,605,283 | 9,687,586 | 9,682,927 | 9,476,793 |
| Fishes | 8,243,093 | 8,269,154 | 8,335,958 | 8,300,940 | 8,106,566 |
| Tunas, albacore | 310,616 | 367,793 | 336,530 | 384,674 | 362,917 |
| Marlins, swordfishes | 50,561 | 45,155 | 41,548 | 46,627 | 43,357 |
| Skipjack, frigate mackerel | 273,640 | 351,248 | 322,703 | 384,621 | 346,518 |
| Sharks, rays | 49,564 | 51,471 | 58,839 | 41,784 | 42,480 |
| Salmons, trouts | 159,338 | 126,094 | 116,465 | 102,760 | 131,021 |
| Herring | 66,617 | 66,083 | 19,873 | 6,706 | 6,819 |
| Sardine, round herring | 569,983 | 1,118,168 | 1,464,655 | 1,687,953 | 1,866,495 |
| Anchovy | 245,164 | 216,664 | 244,933 | 152,428 | 134,577 |
| Jack mackerel, scads | 235,316 | 206,667 | 185,801 | 153,131 | 183,883 |
| Mackerels | 1,318,210 | 978,826 | 1,355,309 | 1,625,866 | 1,414,183 |
| Saury | 221,573 | 105,419 | 253,465 | 360,213 | 277,960 |
| Yellowtails | 38,316 | 42,763 | 26,915 | 37,414 | 44,970 |
| Flounders, halibuts, soles | 348,334 | 352,134 | 288,025 | 313,827 | 288,896 |
| Cod | 92,370 | 90,468 | 85,252 | 88,989 | 91,829 |
| Alaska pollack | 2,677,371 | 2,445,423 | 1,931,072 | 1,546,176 | 1,551,116 |
| Atka mackerel | 114,706 | 229,194 | 234,812 | 134,763 | 118,888 |
| Rockfishes | 95,407 | 89,810 | 61,926 | 32,239 | 40,447 |
| Croakers | 45,107 | 39,044 | 40,439 | 37,471 | 39,444 |
| Hairtail | 32,423 | 30,564 | 28,154 | 28,085 | 30,518 |
| Sea breams | 28,970 | 29,325 | 29,666 | 29,433 | 28,825 |
| Spanish mackerel | 14,633 | 15,204 | 40,621 | 7,500 | 6,140 |
| Sand lance | 274,850 | 224,390 | 137,340 | 99,078 | 110,484 |
| Others | 980,024 | 1,047,247 | 1,038,639 | 999,202 | 944,799 |
| Crustaceans | 145,620 | 127,593 | 125,049 | 140,035 | 132,930 |
| Spiny lobster | 1,086 | 1,028 | 971 | 1,000 | 1,064 |
| "Kuruma" prawn | 2,895 | 2,579 | 2,440 | 2,673 | 2,468 |
| Other prawns, shrimps | 65,356 | 57,415 | 50,019 | 56,003 | 49,129 |
| King crab | 1,823 | 1,258 | 287 | 130 | 270 |
| Queen crab | 24,201 | 22,028 | 21,070 | 22,902 | 23,476 |
| Other crabs | 50,259 | 43,285 | 50,262 | 57,327 | 56,523 |
| Molluscs | 884,615 | 904,553 | 927,082 | 932,378 | 938,307 |
| Common squid | 378,344 | 300,963 | 264,287 | 198,517 | 212,846 |
| Other squids, cuttlefishes | 152,583 | 189,725 | 248,378 | 321,231 | 315,985 |
| Octopuses | 73,962 | 66,873 | 67,913 | 65,441 | 51,986 |
| Abalones | 5,416 | 5,655 | 5,203 | 5,377 | 4,853 |
| Short necked clams | 122,052 | 135,573 | 155,506 | 153,767 | 132,641 |
| Common scallop | 30,274 | 30,270 | 43,502 | 59,664 | 79,734 |
| "Mogai" clam | 18,489 | 11,068 | 5,950 | 4,023 | 7,206 |
| Other clams, shellfishes | 103,495 | 164,426 | 136,343 | 124,359 | 133,056 |

# BY SPECIES, 1975~1979

Unit: Metric tons

| Species | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Echinodermata, etc. | 67,199 | 76,639 | 92,127 | 145,638 | 111,434 |
| Sea urchins | 22,482 | 23,069 | 26,898 | 25,930 | 26,500 |
| Sea cucumbers | 9,380 | 10,579 | 9,793 | 10,143 | 9,381 |
| Other marine animals | 35,337 | 42,991 | 55,436 | 108,679 | 75,553 |
| Marine mamals | 1,522 | 1,768 | 1,429 | 1,899 | 1,062 |
| Seaweeds | 231,019 | 225,576 | 206,030 | 162,893 | 186,494 |
| Kelps | 157,760 | 159,162 | 132,989 | 108,911 | 131,546 |
| "Wakame" seaweed | 19,200 | 19,337 | 20,180 | 12,213 | 12,131 |
| Agar-agar | 12,104 | 10,081 | 11,634 | 11,374 | 11,177 |
| Others | 41,955 | 36,996 | 41,227 | 30,395 | 31,641 |
| Marine Cultures | 772,741 | 849,909 | 861,389 | 917,244 | 879,187 |
| Yellowtails | 92,352 | 101,619 | 114,866 | 121,728 | 154,828 |
| Pearl | 30 | 34 | 39 | 37 | 40 |
| Oyster | 201,173 | 226,286 | 212,786 | 232,069 | 205,509 |
| Common scallop | 70,256 | 64,909 | 83,180 | 67,723 | 43,614 |
| "Nori" seaweed | 278,127 | 291,050 | 279,031 | 350,471 | 325,686 |
| "Wakame" seaweed | 102,058 | 126,723 | 125,833 | 102,682 | 100,358 |
| Others | 28,745 | 39,288 | 45,654 | 42,534 | 49,108 |
| Inland Water Fisheries | 127,220 | 124,066 | 125,660 | 138,185 | 136,441 |
| Salmons, trouts | 8,719 | 5,750 | 5,593 | 6,151 | 8,652 |
| Sweet fish | 13,951 | 13,272 | 13,451 | 13,363 | 14,822 |
| Common carp, crucian carp | 16,589 | 17,073 | 17,076 | 18,127 | 18,804 |
| Eel | 2,202 | 2,040 | 2,102 | 2,068 | 1,923 |
| Fresh water clams | 47,793 | 48,214 | 49,358 | 52,423 | 51,075 |
| Others | 37,966 | 37,717 | 38,080 | 46,053 | 41,165 |
| Inland Water Cultures | 72,119 | 76,645 | 82,159 | 89,933 | 94,569 |
| Trouts | 16,725 | 16,837 | 17,617 | 19,029 | 18,464 |
| Sweet fish | 4,991 | 5,726 | 5,875 | 7,185 | 8,455 |
| Common carp, crucian carp | 29,097 | 27,243 | 30,302 | 30,452 | 28,715 |
| Eel | 20,749 | 26,251 | 27,630 | 32,106 | 36,781 |
| Others | 558 | 588 | 735 | 1,151 | 2,154 |
| Whaling 2) | 13,427 | 9,632 | 9,299 | 5,924 | 4,918 |
| Blue whale | - | - | - | - | - |
| Fin whale | 727 | 118 | - | - | - |
| Humpback whale | - | - | - | - | - |
| Sei whale | 3,539 | 1,977 | 1,737 | 516 | 227 |
| Sperm whale | 5,184 | 4,132 | 3,312 | 2,561 | 1,520 |
| Mink whale | 3,870 | 3,377 | 4,198 | 2,800 | 3,140 |
| Bottlenose whale | 46 | 13 | 44 | 36 | - |
| Pilot whale | 53 | 11 | 6 | 11 | - |
| Others | 8 | 4 | 2 | - | 31 |

Notes : 1) Excluding whales.

2) Actual number of catch.

# I — 4 CATCH IN VALUE

| Species | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total | 1,920,668 | 2,207,736 | 2,565,646 | 2,463,585 | 2,657,996 |
| Marine Fisheries ..... | 1,520,345 | 1,770,243 | 2,051,325 | 1,891,406 | 2,055,936 |
| Fishes ..... | 1,104,331 | 1,302,713 | 1,530,142 | 1,346,818 | 1,499,662 |
| Tunas, albacore ..... | 203,665 | 245,993 | 278,989 | 252,448 | 336,479 |
| Marlins, swordfishes ..... | 29,537 | 30,694 | 32,143 | 26,510 | 30,491 |
| Skipjack, frigate mackerel .... | 74,116 | 86,747 | 103,870 | 78,790 | 85,765 |
| Sharks, rays ..... | 4,397 | 5,595 | 6,728 | 5,402 | 7,351 |
| Salmons, trouts ..... | 109,943 | 96,800 | 111,084 | 121,991 | 116,709 |
| Herring ..... | 9,307 | 13,479 | 4,872 | 1,856 | 2,015 |
| Sardine, round herring ..... | 20,339 | 45,390 | 62,566 | 47,184 | 59,860 |
| Anchovy ..... | 16,910 | 18,038 | 20,851 | 12,925 | 14,204 |
| Jack mackerel, scads ..... | 46,699 | 58,780 | 68,525 | 48,405 | 58,671 |
| Mackerels ..... | 57,090 | 70,710 | 79,494 | 57,905 | 69,784 |
| Saury ..... | 25,232 | 21,585 | 41,117 | 35,591 | 19,542 |
| Yellowtails ..... | 29,480 | 36,685 | 28,140 | 32,614 | 35,097 |
| Flounders, halibuts, soles ..... | 70,328 | 80,608 | 93,865 | 96,290 | 104,368 |
| Cod ..... | 12,476 | 14,630 | 16,766 | 18,315 | 17,657 |
| Alaska pollack ..... | 99,466 | 111,457 | 147,261 | 124,040 | 125,899 |
| Atka mackerel ..... | 3,565 | 8,014 | 10,996 | 6,134 | 6,702 |
| Rockfishes ..... | 16,282 | 16,758 | 17,237 | 14,339 | 18,328 |
| Croakers ..... | 7,177 | 8,235 | 8,910 | 7,719 | 8,347 |
| Hairtail ..... | 6,017 | 7,098 | 8,594 | 6,450 | 8,442 |
| Sea breams ..... | 34,437 | 42,549 | 47,223 | 48,405 | 50,215 |
| Spanish mackerels ..... | 4,904 | 6,073 | 11,935 | 6,040 | 5,556 |
| Sand lance ..... | 11,714 | 13,181 | 15,321 | 8,944 | 7,724 |
| Others ..... | 211,250 | 263,614 | 313,655 | 281,244 | 310,456 |
| Crustaceans ..... | 90,071 | 97,380 | 103,475 | 108,996 | 114,662 |
| Spiny lobster ..... | 4,142 | 4,858 | 5,081 | 5,388 | 5,681 |
| "Kuruma" prawn ..... | 10,017 | 9,119 | 10,482 | 11,294 | 10,650 |
| Other prawns, shrimps ..... | 44,210 | 50,961 | 50,685 | 54,156 | 57,711 |
| King crab ..... | 865 | 731 | 178 | 94 | 248 |
| Queen crab ..... | 12,851 | 13,027 | 15,117 | 18,005 | 18,005 |
| Other crabs ..... | 17,986 | 18,684 | 21,932 | 20,511 | 22,367 |
| Molluscs ..... | 274,103 | 308,052 | 349,634 | 370,636 | 367,157 |
| Common squid ..... | 130,169 | 119,884 | 125,603 | 122,313 | 120,351 |
| Other squids, cuttlefishes .... | 59,459 | 80,490 | 101,886 | 124,705 | 110,996 |
| Octopuses ..... | 26,496 | 29,330 | 32,786 | 27,339 | 28,740 |
| Abalones ..... | 13,848 | 16,029 | 16,136 | 18,082 | 16,981 |
| Short necked clam ..... | 8,683 | 11,969 | 17,236 | 23,003 | 23,121 |
| Common scallop ..... | 5,353 | 8,203 | 10,551 | 11,327 | 17,567 |
| "Mogai" clam ..... | 2,241 | 1,413 | 1,016 | 736 | 1,112 |
| Other clams, shellfishes ..... | 27,854 | 40,734 | 44,420 | 43,131 | 48,289 |

# BY SPECIES, 1975~1979

Unit: Million yen

| Species | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Echinodermata, etc. ..... | 20,621 | 28,874 | 36,845 | 36,120 | 40,095 |
| Sea urchins ..... | 10,437 | 14,313 | 17,203 | 16,418 | 19,200 |
| Sea cucumbers ..... | 3,411 | 5,064 | 4,349 | 4,470 | 5,167 |
| Other marine animals ..... | 6,773 | 9,497 | 15,293 | 15,232 | 15,728 |
| Marine mammals ..... | 175 | 298 | 186 | 302 | 129 |
| Seaweeds ..... | 31,044 | 32,926 | 31,043 | 28,081 | 34,261 |
| Kelps ..... | 22,195 | 23,594 | 20,969 | 19,752 | 25,009 |
| "Wakame" seaweed ..... | 2,497 | 2,449 | 2,706 | 1,826 | 1,751 |
| Agar-agar ..... | 1,730 | 2,011 | 2,068 | 2,009 | 2,292 |
| Other ..... | 4,624 | 4,872 | 354,934 | 4,494 | 5,209 |
| Marine Cultures ..... | 253,612 | 293,343 | 352,156 | 401,321 | 422,236 |
| Yellowtails ..... | 85,617 | 91,159 | 120,313 | 116,484 | 132,318 |
| Pearl ..... | 18,510 | 22,158 | 25,456 | 22,128 | 32,176 |
| Oyster ..... | 19,897 | 24,455 | 27,803 | 24,694 | 23,138 |
| Common scallop ..... | 14,334 | 19,227 | 23,153 | 16,040 | 11,274 |
| "Nori" laver ..... | 83,546 | 94,089 | 108,267 | 166,950 | 157,694 |
| "Wakame" seaweed ..... | 8,538 | 11,271 | 9,232 | 8,478 | 9,699 |
| Others ..... | 19,936 | 30,984 | 37,932 | 46,547 | 55,937 |
| Inland Water Fisheries ..... | 41,704 | 41,479 | 48,627 | 50,827 | 52,705 |
| Salmons, trouts ..... | 3,972 | 3,177 | 3,445 | 3,625 | 4,001 |
| Sweet fish ..... | 17,377 | 16,124 | 19,148 | 20,070 | 20,814 |
| Common carp, crucian carp ..... | 4,835 | 5,008 | 5,578 | 6,111 | 6,392 |
| Eel ..... | 3,210 | 2,558 | 2,845 | 2,816 | 3,076 |
| Fresh water clams ..... | 4,095 | 4,822 | 6,434 | 6,924 | 6,634 |
| Others ..... | 8,215 | 9,790 | 11,177 | 11,375 | 93,622 |
| Inland Water Cultures ..... | 71,285 | 81,082 | 92,986 | 107,622 | 116,415 |
| Trouts ..... | 8,230 | 9,008 | 10,764 | 11,743 | 14,347 |
| Sweet fish ..... | 6,237 | 6,734 | 8,488 | 11,011 | 12,266 |
| Common carp, crucian carp ..... | 12,146 | 10,808 | 13,218 | 14,197 | 12,664 |
| Eel ..... | 41,913 | 51,452 | 56,863 | 66,748 | 71,465 |
| Others ..... | 2,759 | 3,080 | 3,653 | 3,923 | 5,673 |
| Whalings ..... | 33,722 | 21,589 | 20,552 | 12,409 | 10,704 |

# I — 5 CATCH IN QUANTITY AND VALUE

| Type of Fisheries | 1975 | | 1976 | |
|---|---|---|---|---|
| | Q | V | Q | V |
| Total 1) | 10,545,148 | 1,886,946 | 10,655,903 | 2,186,147 |
| Marine Fisheries | 9,573,068 | 1,520,345 | 9,605,283 | 1,770,243 |
| Mother ship type | | | | |
| Mother ship type trawl | 796,050 | 33,613 | 764,416 | 41,064 |
| Mother ship type salmon fishery | 33,907 | 17,901 | 32,418 | 20,020 |
| Mother ship type crab fishery | 8,099 | 3,598 | 8,100 | 4,177 |
| Mother ship type tuna long line | 2,017 | 1,100 | 1,229 | 676 |
| Trawls | | | | |
| Large trawls in N.Pacific Ocean | 1,389,088 | 87,916 | 1,170,959 | 84,942 |
| Large trawl in Southern Ocean | 285,527 | 55,247 | 301,471 | 65,411 |
| Large trawl in East China Sea | 210,552 | 56,077 | 184,882 | 63,039 |
| Shrimp trawl | 3,819 | 4,627 | 3,341 | 4,711 |
| Medium trawl (one boat operation) | 1,309,128 | 64,803 | 1,388,533 | 86,623 |
| (two boats operation) | 61,129 | 13,994 | 60,259 | 17,906 |
| Small trawls | 286,999 | 97,458 | 287,890 | 112,390 |
| Surrounding nets | | | | |
| Large and medium surrounding net (one boat operation) | 4,378,885 | 88,078 | 1,429,651 | 127,472 |
| (two boats operation) | 190,007 | 6,985 | 162,717 | 6,943 |
| Purse seine(one boat operation) | 250,358 | 24,207 | 359,914 | 35,984 |
| (two boats operation) | 219,339 | 18,000 | 267,165 | 23,558 |
| Others | 24,435 | 6,560 | 20,495 | 7,410 |
| Lift nets | | | | |
| Saury stick held dip net | 216,488 | 24,731 | 99,435 | 20,411 |
| Others | 94,474 | 10,392 | 115,675 | 13,649 |
| Gill nets | | | | |
| Salmon drift gill net | 55,702 | 36,776 | 48,973 | 37,746 |
| Others | 309,506 | 71,978 | 295,270 | 88,874 |
| Seine nets | | | | |
| Beach seine | 11,781 | 2,293 | 11,371 | 2,631 |
| "Patchi" seine | 105,106 | 15,119 | 110,334 | 17,766 |
| Boat seine | 110,750 | 28,279 | 136,718 | 34,168 |
| Set nets | | | | |
| Salmon large set net | 57,125 | 45,259 | 34,318 | 29,607 |
| Other large set net | 183,336 | 36,348 | 164,564 | 43,622 |
| Small set nets | 140,931 | 33,368 | 132,604 | 38,242 |
| Anglings | | | | |
| Skipjack pole-and-line on distant waters | 203,219 | 56,430 | 253,306 | 72,748 |
| Skipjack pole-and-line on offshore waters | 102,685 | 29,020 | 154,141 | 39,910 |
| Skipjack pole-and-line on coastal waters | 16,678 | 4,550 | 19,133 | 6,115 |
| Mackerel pole-and-line | 53,655 | 2,597 | 93,570 | 5,322 |
| Other mackerel anglings | 6,985 | 784 | 8,168 | 1,036 |
| Squid angling | 409,405 | 139,516 | 377,261 | 146,536 |
| Others | 88,768 | 46,823 | 95,410 | 58,159 |
| Long lines | | | | |
| Tuna long line on distant waters | 198,120 | 141,729 | 191,436 | 149,990 |
| Tuna long line on offshore waters | 74,592 | 41,536 | 81,681 | 49,611 |
| Tuna long line on coastal waters | 17,103 | 10,594 | 22,081 | 12,788 |
| Salmon long line | 3,154 | 1,627 | 3,035 | 2,320 |
| Others | 80,953 | 29,491 | 72,759 | 35,633 |
| Others | | | | |
| N. Pacific Ocean tanner crab fishery | 6,608 | 3,110 | 5,822 | 3,424 |
| N. Pacific Ocean long line and gill net | 29,144 | 8,727 | 30,966 | 10,589 |
| Shellfish collecting | 174,074 | 32,733 | 222,356 | 45,887 |
| Seaweed collecting | 228,486 | 30,697 | 223,210 | 32,461 |
| Other fisheries | 144,901 | 55,674 | 158,246 | 69,167 |
| Marine Cultures | 772,741 | 253,612 | 849,909 | 293,343 |
| Inland Water Fisheries | 127,220 | 41,704 | 124,066 | 41,479 |
| Inland Water Cultures | 72,119 | 71,285 | 76,645 | 81,082 |
| Whalings | | | | |
| Antarctic mother ship type | 7,423 | 26,530 | 5,043 | 15,290 |
| N. Pacific mother ship type | 3,063 | 7,260 | 1,631 | 3,440 |
| Coastal large type | 2,464 | 2,220 | 2,570 | 3,000 |
| Coastal small type | 477 | 395 | 388 | 330 |

Notes: 1) Excluding whalings.

# BY FISHERY TYPE, 1975～1979

Unit { Quantity : Metric tons
Value : Million yen

| 1977 | | 1978 | | 1979 | |
|---|---|---|---|---|---|
| Q | V | Q | V | Q | V |
| 10,756,794 | 2,545,094 | 10,828,289 | 2,463,414 | 10,586,990 | 2,647,960 |
| 9,687,586 | 2,051,325 | 9,682,927 | 1,890,954 | 9,476,793 | 2,055,936 |
| 563,208 | 47,247 | 555,706 | 52,219 | 542,780 | 45,457 |
| 23,565 | 17,608 | 15,399 | 16,992 | 15,449 | 15,191 |
| 9,770 | 5,838 | --- | --- | --- | --- |
| 501 | --- | --- | --- | --- | --- |
| 1,013,519 | 79,339 | 622,496 | 71,318 | 595,962 | 81,617 |
| 407,144 | 77,286 | 261,004 | 65,749 | 222,848 | 49,231 |
| 206,182 | 71,910 | 197,769 | 64,880 | 199,478 | 69,322 |
| 2,901 | 5,104 | 2,720 | 4,896 | 3,105 | 7,676 |
| 916,909 | 105,425 | 824,829 | 89,387 | 853,704 | 102,162 |
| 68,276 | 19,438 | 59,980 | 18,193 | 59,320 | 19,101 |
| 323,789 | 136,171 | 339,240 | 141,206 | 355,119 | 154,240 |
| 2,016,216 | 149,447 | 2,449,046 | 113,613 | 2,397,823 | 160,187 |
| 128,258 | 5,304 | 68,324 | 1,914 | 44,485 | 1,916 |
| 411,759 | 43,773 | 499,552 | 42,248 | 548,292 | 48,588 |
| 269,761 | 27,977 | 269,333 | 21,608 | 258,564 | 21,632 |
| 25,823 | 4,851 | 10,540 | 4,385 | 5,494 | 2,969 |
| 244,159 | 39,394 | 350,617 | 34,886 | 266,741 | 18,402 |
| 108,711 | 15,102 | 140,809 | 15,105 | 136,093 | 15,163 |
| 38,354 | 33,354 | 25,287 | 25,079 | 26,077 | 19,948 |
| 335,612 | 100,096 | 344,758 | 107,551 | 349,748 | 113,421 |
| 10,054 | 2,629 | 8,935 | 2,671 | 6,882 | 2,404 |
| 136,817 | 21,428 | 110,599 | 16,449 | 88,838 | 17,629 |
| 140,819 | 41,640 | 131,963 | 42,934 | 123,524 | 39,228 |
| 42,786 | 43,964 | 49,754 | 63,334 | 69,977 | 65,986 |
| 166,347 | 46,192 | 180,626 | 46,186 | 184,774 | 51,519 |
| 147,289 | 47,786 | 144,661 | 46,520 | 146,751 | 48,160 |
| 205,872 | 20,077 | 231,703 | 54,127 | 197,870 | 57,854 |
| 120,204 | 41,108 | 161,445 | 34,409 | 143,424 | 35,987 |
| 17,589 | 6,652 | 23,840 | 7,103 | 20,165 | 6,954 |
| 139,058 | 10,812 | 28,548 | 1,255 | 6,713 | 1,423 |
| 8,306 | 1,188 | 4,658 | 683 | 3,310 | 529 |
| 346,542 | 159,830 | 363,670 | 170,328 | 333,850 | 165,845 |
| 87,039 | 62,244 | 90,649 | 59,013 | 89,660 | 63,021 |
| 201,596 | 2) 185,781 | 2) 200,888 | 2) 160,563 | 2) 205,042 | 2) 220,799 |
| 95,369 | 62,199 | 101,490 | 51,553 | 97,164 | 64,475 |
| 22,042 | 12,626 | 23,313 | 11,336 | 24,312 | 14,706 |
| 2,345 | 2,078 | 2,026 | 1,698 | 1,964 | 1,566 |
| 75,868 | 41,801 | 96,587 | 43,083 | 93,949 | 46,601 |
| 3,710 | 2,406 | 3) 15,797 | 3) 8,820 | 3) 15,731 | 3) 9,061 |
| 23,349 | 8,576 | 24,338 | 6,365 | 29,664 | 8,932 |
| 216,495 | 51,284 | 215,162 | 59,468 | 180,061 | 55,936 |
| 203,125 | 30,473 | 159,589 | 26,700 | 183,272 | 33,380 |
| 167,661 | 73,892 | 275,277 | 85,132 | 348,834 | 97,718 |
| 861,389 | 352,156 | 917,244 | 401,321 | 879,187 | 422,236 |
| 125,660 | 48,627 | 138,185 | 50,912 | 136,441 | 52,705 |
| 82,159 | 92,986 | 89,933 | 107.622 | 94,569 | 116,415 |
| 5,421 | 13,720 | 2,950 | 7,560 | 2,933 | 6,410 |
| 1,485 | 3,360 | 735 | 1,690 | 226 | 890 |
| 2,093 | 3,140 | 1,792 | 2,790 | 1,321 | 2,770 |
| 300 | 340 | 447 | 570 | 438 | 630 |

Notes: 2) Including mother ship type tuna long line
3) Including mother ship type crab fishery

# I — 6 CATCHES OF MAJOR SPECIES

## (1) Tunas, albacore

Unit: Metric tons

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total Catch | 310,616 | 367,793 | 336,530 | 384,674 | 362,917 |
| Tuna long line | | | | | |
| mother ship type ..... | 1,050 | 347 | 461 | 1) ... | ... |
| in distant waters ..... | 159,239 | 155,938 | 171,239 | 166,844 | 168,656 |
| in offshore waters ..... | 48,343 | 56,279 | 65,870 | 76,027 | 66,429 |
| in coastal waters ..... | 12,954 | 17,095 | 16,836 | 16,852 | 17,435 |
| Skipjack pole-and-line ..... | 67,264 | 112,877 | 56,267 | 80,159 | 58,927 |
| Surrounding nets ..... | 13,490 | 14,399 | 16,177 | 24,827 | 30,934 |
| Others ..... | 8,276 | 10,858 | 9,680 | 20,809 | 20,536 |

## (2) Marlins, swordfishes

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 50,561 | 45,155 | 41,548 | 46,627 | 43,357 |
| Tuna long line | | | | | |
| mother ship type ..... | 947 | 861 | 30 | 1) ... | ... |
| in distant waters ..... | 27,383 | 24,726 | 19,938 | 23,269 | 24,465 |
| in offshore waters ..... | 8,911 | 8,389 | 9,911 | 9,903 | 10,714 |
| in coastal waters ..... | 1,394 | 1,508 | 1,838 | 2,236 | 2,220 |
| Other gill nets ..... | 10,150 | 7,746 | 8,164 | 9,295 | 4,375 |
| Others ..... | 1,776 | 1,925 | 1,667 | 1,924 | 1,583 |

## (3) Skipjack

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 258,736 | 331,047 | 309,407 | 369,530 | 329,948 |
| Skipjack pole-and-line | | | | | |
| in distant waters ..... | 151,621 | 170,416 | 168,993 | 172,428 | 153,609 |
| in offshore waters ..... | 84,221 | 122,146 | 96,343 | 136,814 | 127,350 |
| in coastal waters ..... | 8,506 | 10,070 | 12,099 | 17,673 | 16,922 |
| Surrounding nets (one boat) .... | 8,186 | 20,400 | 24,396 | 31,810 | 29,481 |
| Surrounding nets (two boats).... | 318 | 628 | 114 | 287 | 106 |
| Other anglings ..... | 4,561 | 5,596 | 4,569 | 7,280 | 7,715 |
| Others ..... | 1,323 | 1,791 | 2,893 | 3,238 | 5,235 |

## (4) Salmons, trouts

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 159,338 | 126,094 | 116,465 | 102,760 | 131,021 |
| Mother ship type salmon fishery. | 33,907 | 32,418 | 23,565 | 15,399 | 15,449 |
| Salmon drift gill net ..... | 55,702 | 48,973 | 38,354 | 25,287 | 26,077 |
| Salmon large set net ..... | 53,183 | 34,254 | 37,349 | 45,198 | 65,992 |
| Small set nets ..... | 6,867 | 5,180 | 6,958 | 6,901 | 9,879 |
| Other long lines ..... | 3,797 | 3,137 | 2,539 | 2,266 | 2,001 |
| Others ..... | 5,882 | 2,132 | 7,700 | 7,709 | 11,623 |

## (5) Herring

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 66,617 | 66,083 | 19,873 | 6,708 | 6,819 |
| Mother ship type trawl ..... | 501 | 2,272 | 564 | 281 | 14 |
| Large trawl in Southern Ocean .. | 2,079 | 868 | 1 | 2 | - |
| Medium trawl(one boat) ..... | 9,985 | 22,460 | 8,151 | 3,174 | 3,823 |
| Other gill nets ..... | 52,997 | 34,575 | 5,098 | 984 | 480 |
| Others ..... | 1,055 | 5,908 | 6,059 | 2,267 | 2,502 |

Note : 1) Including mother ship type tuna long line.

# BY FISHERY TYPE, 1975~1979

## (6) Sardine, round herring

Unit: Metric tons

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total Catch | 569,983 | 1,118,168 | 1,464,655 | 1,687,953 | 1,866,495 |
| Surrounding nets (one boat) ..... | 257,790 | 761,233 | 1,016,906 | 1,247,384 | 1,448,395 |
| Surrounding nets (two boats) .... | 245,996 | 276,214 | 279,148 | 236,787 | 208,289 |
| Other surrounding nets ..... | 4,077 | 1,919 | 1,325 | 639 | 88 |
| Other lift nets ..... | 14,174 | 13,136 | 22,663 | 28,444 | 50,640 |
| Set nets ..... | 39,959 | 50,642 | 79,875 | 103,069 | 114,194 |
| Others ..... | 7,987 | 15,024 | 64,738 | 71,630 | 44,889 |

## (7) Anchovy

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 245,164 | 216,664 | 244,933 | 152,428 | 134,577 |
| Surrounding nets (one boat) ..... | 56,516 | 45,498 | 63,526 | 36,335 | 28,706 |
| Surrounding nets (two boats) .... | 69,839 | 58,426 | 58,054 | 39,242 | 31,789 |
| Set nets ..... | 13,523 | 10,045 | 17,956 | 11,304 | 8,969 |
| "Patchi" seine ..... | 67,001 | 58,423 | 54,242 | 33,453 | 33,332 |
| Boat seine ..... | 26,011 | 31,949 | 37,406 | 22,238 | 24,404 |
| Others ..... | 12,274 | 12,323 | 13,749 | 9,856 | 7,377 |

## (8) Jack mackerel, scads

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 235,316 | 206,667 | 185,801 | 153,131 | 183,883 |
| Surrounding nets (one boat) ..... | 186,603 | 168,161 | 150,650 | 126,125 | 159,689 |
| Surrounding nets (two boats) .... | 11,889 | 11,581 | 8,656 | 3,891 | 5,267 |
| Other lift nets ..... | 6,848 | 6,455 | 7,243 | 8,275 | 4,835 |
| Set nets ..... | 16,789 | 10,700 | 9,329 | 6,904 | 7,571 |
| Others ..... | 13,187 | 9,770 | 9,923 | 7,936 | 6,521 |

## (9) Mackerels

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 1,318,210 | 978,826 | 1,355,309 | 1,625,865 | 1,414,183 |
| Surrounding nets (one boat) ..... | 1,067,570 | 713,855 | 1,106,790 | 1,404,489 | 1,150,945 |
| Surrounding nets (two boats) .... | 69,742 | 72,832 | 40,445 | 40,115 | 41,510 |
| Mackerel pole-and-line ..... | 53,118 | 93,470 | 138,113 | 28,449 | 6,673 |
| Set nets ..... | 97,654 | 60,618 | 30,813 | 27,565 | 24,527 |
| Others ..... | 30,126 | 38,051 | 39,148 | 125,247 | 190,528 |

## (10) Saury

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 221,573 | 105,419 | 253,465 | 360,213 | 277,960 |
| Saury stick held dip net ..... | 215,911 | 99,254 | 243,844 | 350,532 | 266,652 |
| Other gill nets ..... | 1,673 | 3,177 | 2,996 | 2,800 | 3,772 |
| Set nets ..... | 3,683 | 2,668 | 5,673 | 5,041 | 7,262 |
| Others ..... | 306 | 320 | 952 | 1,840 | 274 |

# I — 6 CATCHES OF MAJOR SPECIES

## (11) Yellowtails

Unit: Metric tons

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total Catch | 38,361 | 42,763 | 26,915 | 37,414 | 44,970 |
| Surrounding nets | 6,877 | 6,553 | 3,427 | 5,423 | 10,677 |
| Large set nets | 12,800 | 11,574 | 6,695 | 13,264 | 12,545 |
| Small set nets | 3,389 | 3,647 | 2,832 | 5,078 | 5,191 |
| Other gill nets | 4,020 | 4,034 | 2,995 | 3,136 | 4,031 |
| Other anglings | 9,348 | 13,955 | 9,046 | 8,282 | 9,699 |
| Others | 1,882 | 3,000 | 1,920 | 2,231 | 2,827 |

## (12) Flounders, halibuts, soles

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 348,334 | 352,134 | 288,025 | 313,830 | 288,896 |
| Mother ship type trawl | 97,656 | 104,313 | 62,819 | 57,059 | 56,739 |
| Large trawls in N.Pacific Ocean | 82,711 | 80,729 | 75,324 | 105,790 | 89,086 |
| Large trawl in East China Sea | 26,228 | 22,351 | 16,616 | 15,638 | 15,213 |
| Medium trawls | 66,621 | 66,020 | 55,580 | 54,962 | 50,648 |
| Small trawls | 27,073 | 26,038 | 27,755 | 27,430 | 27,924 |
| Other gill nets | 36,525 | 36,896 | 39,320 | 39,394 | 35,401 |
| Others | 11,520 | 15,787 | 10,611 | 13,557 | 13,885 |

## (13) Cod

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 92,370 | 90,468 | 85,252 | 89,016 | 91,829 |
| Mother ship type trawl | 23,162 | 19,200 | 18,456 | 16,617 | 14,766 |
| Large trawls in N.Pacific Ocean | 18,734 | 26,264 | 20,213 | 27,643 | 19,005 |
| Medium trawls | 28,202 | 23,943 | 27,143 | 18,521 | 15,978 |
| Other gill nets | 8,097 | 7,033 | 7,611 | 8,280 | 11,089 |
| Other long lines | 8,489 | 6,351 | 4,221 | 3,607 | 13,810 |
| Others | 5,686 | 7,671 | 7,608 | 14,348 | 17,181 |

## (14) Alaska pollack

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 2,677,371 | 2,445,423 | 1,931,072 | 1,546,176 | 1,551,116 |
| Mother ship type trawl | 663,029 | 630,182 | 478,155 | 475,244 | 464,803 |
| Large trawls in N.Pacific Ocean | 1,138,707 | 911,740 | 803,207 | 394,015 | 396,681 |
| Medium trawls | 758,893 | 805,672 | 489,342 | 499,324 | 524,599 |
| Other gill nets | 90,501 | 72,539 | 122,372 | 115,832 | 120,441 |
| Other long lines | 20,907 | 17,199 | 23,855 | 44,656 | 33,466 |
| Others | 5,334 | 8,091 | 14,141 | 17,105 | 11,126 |

## (15) Sea breams

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 28,970 | 29,325 | 29,664 | 29,433 | 28,825 |
| Large trawl in Southern Ocean | 2,543 | 1,293 | 1,658 | - | - |
| Large trawl in East China Sea | 2,966 | 4,396 | 4,112 | 4,720 | 5,006 |
| Small trawls | 2,545 | 2,607 | 2,802 | 3,171 | 783 |
| Other gill nets | 2,831 | 3,210 | 3,000 | 2,938 | 3,052 |
| Boat seine | 2,650 | 3,552 | 3,728 | 4,248 | 3,912 |
| Other angling and long lines | 9,604 | 9,763 | 10,014 | 9,441 | 9,717 |
| Others | 5,831 | 4,504 | 4,350 | 4,915 | 4,355 |

# BY FISHERY TYPE, 1975~1979 (Continued)

## (16) Sand lance

Unit: Metric tons

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total Catch | 274,850 | 224,390 | 137,340 | 99,078 | 110,484 |
| Medium trawls | 189,462 | 117,817 | 57,338 | 28,807 | 36,661 |
| Other lift nets | 33,079 | 48,199 | 32,513 | 32,686 | 33,154 |
| "Patchi" seine | 11,650 | 6,841 | 3,906 | 6,454 | 3,960 |
| Boat seine | 30,951 | 42,347 | 31,786 | 26,469 | 28,658 |
| Small set nets | 7,650 | 7,201 | 7,861 | 2,333 | 2,755 |
| Others | 2,058 | 1,985 | 3,936 | 2,329 | 5,296 |

## (17) Lobster, shrimps, prawns

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 69,337 | 61,022 | 53,427 | 59,676 | 52,661 |
| Large trawls in N.Pacific Ocean | 6,598 | 4,103 | - | - | - |
| Shrimp trawl | 3,819 | 3,341 | 2,901 | 2,720 | 3,008 |
| Large trawl in East China Sea | 7,923 | 6,924 | 4,191 | 4,510 | 3,364 |
| Medium trawls | 4,181 | 3,674 | 4,071 | 3,852 | 3,528 |
| Small trawls | 30,272 | 30,142 | 32,216 | 36,808 | 32,229 |
| Other surrounding nets | 5,673 | 2,941 | 99 | 3 | 3 |
| Others | 10,871 | 9,897 | 9,952 | 11,783 | 10,529 |

## (18) Crabs

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 76,283 | 66,571 | 71,619 | 80,359 | 80,269 |
| Mother ship type crab fishery | 8,099 | 8,100 | 9,700 | ... | ... |
| Medium trawls | 4,493 | 4,133 | 4,280 | 3,985 | 3,634 |
| Small trawls | 6,511 | 5,306 | 5,668 | 6,277 | 6,306 |
| Other gill nets | 5,118 | 4,837 | 3,911 | 3,408 | 3,553 |
| Other fishery (crab cages,etc.) | 44,863 | 37,967 | 43,726 | 50,326 | 50,507 |
| Others | 7,199 | 6,228 | 4,334 | 1) 16,363 | 16,269 |

## (19) Squids, cuttlefishes

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 537,838 | 501,869 | 512,579 | 519,747 | 528,831 |
| Large trawl in Southern Ocean | 34,059 | 29,122 | 50,778 | 30,201 | 63,679 |
| Large trawl in East China Sea | 27,167 | 18,816 | 27,784 | 26,931 | 25,174 |
| Medium trawls | 20,382 | 21,764 | 29,628 | 19,311 | 27,916 |
| Set nets | 16,015 | 16,188 | 19,660 | 15,288 | 15,665 |
| Squid angling | 408,942 | 376,890 | 346,043 | 363,272 | 333,185 |
| Others | 31,273 | 39,089 | 38,686 | 64,744 | 63,212 |

## (20) Octopuses

| | | | | | |
|---|---|---|---|---|---|
| Total Catch | 73,962 | 66,873 | 67,913 | 65,441 | 51,986 |
| Large trawl in Southern Ocean | 24,535 | 24,645 | 26,100 | 19,818 | 9,633 |
| Medium trawls | 2,456 | 2,025 | 2,445 | 2,727 | 3,249 |
| Small trawls | 12,419 | 10,129 | 8,078 | 9,828 | 9,569 |
| Other long lines | 8,129 | 5,808 | 4,925 | 7,205 | 6,200 |
| Other fishery (octopus pots) | 22,537 | 20,177 | 21,549 | 22,024 | 19,477 |
| Others | 3,886 | 4,089 | 4,816 | 3,839 | 3,858 |

Note : 1) Including mother ship type crab fishery.

# I — 7 INDEX OF FISHERY PRODUCTION BY TYPE OF FISHERIES, 1975~1979 (1975=100)

| Group | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Fisheries total ..... | 100.0 | 102.0 | 101.5 | 105.4 | 106.0 |
| Marine fisheries and marine cultures ..... | 100.0 | 103.5 | 106.0 | 104.2 | 104.1 |
| Distant water fisheries 1) ..... | 100.0 | 93.3 | 97.3 | 85.9 | 83.9 |
| Offshore fisheries 2) ..... | 100.0 | 108.1 | 108.9 | 127.2 | 134.6 |
| Coastal fisheries 3) ..... | 100.0 | 100.6 | 106.2 | 105.5 | 164.7 |
| Fisheries using fishing boat ... | 100.0 | 106.2 | 111.0 | 117.2 | 103.6 |
| Set net and beach seine fisheries ..... | 100.0 | 81.0 | 89.2 | 63.7 | 108.4 |
| Marine cultures ..... | 100.0 | 109.4 | 116.3 | 128.6 | 136.1 |
| Costal fisheries and marine cultures ..... | 100.0 | 103.6 | 109.6 | 113.3 | 115.3 |
| Inland water fisheries and inland water cultures ..... | 100.0 | 108.4 | 113.0 | 125.0 | 135.7 |
| Whalings ..... | 100.0 | 55.7 | 51.8 | 30.1 | 21.3 |

Notes : 1) This type of fisheries covers mother ship type fisheries, large trawl in Eastern China Sea, distant water trawls, tuna long line on distant water, skipjack pole-and-line on distant waters, North Pacific Ocean tanner crab fishing, North Pacific Ocean long line and gill net.

2) This type of fisheries covers fisheries operating with powered boat of more than 10 gross tonnage except for fisheries on distant waters, collecting shellfish, collecting seaweeds, set net and beach seine.

3) This type of fisheries covers fisheries operating without fishing boat, with non-powered boat, with powered boat less than 10 gross tonnage including collecting shellfish, collecting seaweeds, set net and beach seine.

4) The calculation method of the index is as follows:

(1) The items adopted amount to 125 commodities; 75 for marine fisheries, 15 for marine cultures, 10 for whaling, 14 for inland water fisheries, and 7 for inland water cultures.

(2) Formula

The index numbers are computed by the Laspeyres formula.

$$Q_{0t} = \frac{\Sigma W_0 (q_t / q_0)}{\Sigma W_0}$$

$W_0$ : Weights of the base period.

$q_0$ : Quantity of production in the base period.

$q_t$ : Quantity of production in the current period.

(3) Weight

The weights were determined by the production value for 1974 and 1975 obtained by maltiplying quantity of production by price, and expressed as portions of 10,000.

# I — 8 INDEX OF FISHERY PRODUCTION BY SPECIES, 1975～1979 (1975=100)

| Item | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Marine Fisheries | | | | | |
| Bluefin tuna | 100.0 | 102.7 | 127.5 | 114.3 | 108.7 |
| Albacore | 100.0 | 155.5 | 78.5 | 127.3 | 97.0 |
| Bigeye tuna | 100.0 | 101.2 | 113.1 | 112.5 | 115.0 |
| Yellowfin tuna | 100.0 | 119.2 | 115.2 | 136.2 | 138.5 |
| Striped marlin | 100.0 | 75.5 | 63.5 | 71.7 | 71.4 |
| Brodbill swordfish | 100.0 | 106.9 | 94.4 | 98.1 | 94.0 |
| Skipjack | 100.0 | 128.0 | 119.6 | 142.8 | 127.5 |
| Sharks | 100.0 | 104.2 | 117.9 | 99.7 | 101.4 |
| Salmons | 100.0 | 84.5 | 70.6 | 74.7 | 95.2 |
| Trouts | 100.0 | 67.2 | 78.7 | 41.8 | 53.4 |
| Herring | 100.0 | 99.2 | 29.8 | 10.1 | 10.2 |
| Sardine | 100.0 | 202.6 | 269.9 | 311.3 | 330.8 |
| Anchovy | 100.0 | 88.4 | 99.9 | 62.2 | 54.9 |
| Jack mackerel | 100.0 | 68.8 | 47.1 | 31.2 | 44.4 |
| Mackerels | 100.0 | 74.3 | 102.8 | 123.3 | 113.1 |
| Saury | 100.0 | 47.6 | 114.4 | 162.6 | 125.4 |
| Yellowtail | 100.0 | 111.6 | 70.2 | 97.6 | 117.4 |
| Flounders, soles | 100.0 | 101.1 | 82.5 | 89.9 | 82.7 |
| Cod | 100.0 | 97.9 | 92.3 | 96.4 | 99.5 |
| Alaska pollack | 100.0 | 91.3 | 72.1 | 57.7 | 57.9 |
| Red sea bream | 100.0 | 100.3 | 100.5 | 99.1 | 94.6 |
| Sand lance | 100.0 | 81.6 | 50.0 | 36.0 | 40.2 |
| King crab | 100.0 | 69.0 | 5.5 | 7.1 | 14.8 |
| Common squid | 100.0 | 79.6 | 62.0 | 68.0 | 74.7 |
| Octopuses | 100.0 | 90.4 | 91.8 | 88.5 | 70.3 |
| Sea urchins | 100.0 | 102.6 | 119.6 | 115.3 | 117.9 |
| Sea cucumbers | 100.0 | 112.8 | 104.4 | 108.1 | 100.0 |
| Abalone | 100.0 | 104.4 | 96.1 | 99.3 | 89.6 |
| Kelp | 100.0 | 100.9 | 84.3 | 69.0 | 83.4 |
| Marine Cultures | | | | | |
| Yellowtail | 100.0 | 110.0 | 124.4 | 131.8 | 167.7 |
| "Kuruma" prawn | 100.0 | 111.3 | 120.1 | 126.5 | 158.1 |
| Oyster | 100.0 | 112.5 | 105.8 | 115.4 | 102.2 |
| Common scallop | 100.0 | 92.4 | 118.4 | 96.4 | 62.1 |
| "Nori" laver | 100.0 | 105.4 | 99.3 | 126.7 | 117.1 |
| "Wakame" seaweed | 100.0 | 124.2 | 123.3 | 100.6 | 101.7 |
| Inland Water Fisheries | | | | | |
| Salmons | 100.0 | 55.1 | 53.3 | 60.1 | 92.9 |
| Pond smelt | 100.0 | 123.4 | 130.6 | 99.8 | 109.0 |
| Sweet fish | 100.0 | 95.0 | 96.4 | 95.8 | 106.2 |
| Common carp | 100.0 | 103.9 | 100.9 | 110.1 | 117.3 |
| Crucian carp | 100.0 | 102.3 | 104.3 | 108.7 | 110.7 |
| Inland Water Cultures | | | | | |
| Rainbow trout, etc. | 100.0 | 100.7 | 105.3 | 113.8 | 110.4 |
| Sweet fish | 100.0 | 114.7 | 117.7 | 144.0 | 169.4 |
| Common carp | 100.0 | 93.5 | 104.1 | 103.7 | 97.6 |
| Eel | 100.0 | 126.5 | 133.2 | 154.7 | 177.3 |

# Ⅱ STRUCTURE OF FISHERY PRODUCTION

## Ⅱ－1 NUMBER OF MARINE FISHERIES ESTABLISHMENTS, 1975～1979

Unit : Number

| Type and size of management | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Grand Total | 227,452 | 224,610 | 222,395 | 217,734 | 219,112 |
| Without fishing boat ..... | 11,901 | 10,979 | 9,728 | 10,471 | 9,051 |
| With non-powered boats ..... | 3,492 | 2,780 | 1,943 | 2,964 | 1,636 |
| With powered boats | | | | | |
| Sub-total ..... | 147,744 | 149,589 | 151,393 | 147,751 | 150,438 |
| Less than 3 G.T. ..... | 100,374 | 100,180 | 99,043 | 92,440 | 93,327 |
| 3 - 5 ..... | 28,143 | 29,581 | 31,307 | 33,384 | 33,998 |
| 5 - 10 ..... | 9,041 | 9,545 | 10,455 | 10,989 | 11,495 |
| 10 - 30 ..... | 5,547 | 5,665 | 5,999 | 6,432 | 7,046 |
| 30 - 100 ..... | 2,888 | 2,862 | 2,796 | 2,808 | 2,827 |
| 100 - 200 ..... | 625 | 648 | 699 | 645 | 675 |
| 200 - 500 ..... | 603 | 593 | 577 | 545 | 547 |
| 500 - 1,000 ..... | 301 | 297 | 308 | 300 | 308 |
| 1,000 G.T. and over ..... | 222 | 218 | 209 | 208 | 215 |
| Set nets and beach seine | | | | | |
| Sub-total ..... | 7,920 | 7,938 | 8,113 | 8,135 | 8,381 |
| Large set nets ..... | 945 | 1,027 | 1,042 | 1,217 | 1,113 |
| Small set nets ..... | 6,318 | 6,240 | 6,470 | 6,263 | 6,729 |
| Beach seine ..... | 657 | 671 | 601 | 655 | 539 |
| Culture | | | | | |
| Sub-total ..... | 56,395 | 53,324 | 51,218 | 48,413 | 49,606 |
| Laver culture ..... | 31,751 | 28,875 | 26,874 | 24,913 | 24,882 |
| Oyster culture ..... | 3,382 | 3,444 | 3,942 | 3,924 | 4,121 |
| Pearl culture ..... | 1,833 | 1,824 | 1,883 | 1,755 | 1,783 |
| Wakame seaweed culture ... | 9,248 | 8,780 | 8,116 | 6,870 | 7,203 |
| Yellowtail culture ..... | 2,873 | 3,185 | 3,316 | 3,473 | 3,560 |
| Common scallop culture ... | 4,440 | 3,987 | 3,682 | 3,496 | 3,482 |
| Other cultures ..... | 2,868 | 3,229 | 3,405 | 3,982 | 4,575 |

Note : Excluding the number of fisheries establishments which engaged in fishing for less than 30 days in a year.

## Ⅱ－2 NUMBER OF MARINE FISHERY WORKERS, 1975～1979

Unit : Thousand men

| | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Grand Total | 477.5 | 469.7 | 459.3 | 478.1 | 467.8 |
| Men ..... | 397.6 | 389.0 | 379.1 | 398.0 | 387.3 |
| 15 - 39 years old ..... | 143.3 | 135.9 | 126.9 | 134.5 | 125.4 |
| 40 - 59 years old ..... | 186.7 | 186.8 | 186.9 | 199.6 | 197.2 |
| 60 years old and over ..... | 67.5 | 66.2 | 65.3 | 63.9 | 64.7 |
| Women ..... | 80.0 | 80.7 | 80.2 | 80.1 | 80.5 |

# Ⅱ — 3 NUMBER OF FISHING BOATS, 1975～1979

Unit : Number

| Size | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total | 414,745 | 424,391 | 434,193 | 435,784 | 444,413 |
| Marine | 390,480 | 399,156 | 408,851 | 412,423 | 423,820 |
| Non-powered | 44,601 | 40,046 | 35,785 | 29,866 | 28,402 |
| Powered | 345,879 | 359,110 | 373,066 | 382,557 | 395,418 |
| Less than 5 G.T. | 316,685 | 328,800 | 341,068 | 349,044 | 359,984 |
| 5 - 9 | 11,295 | 12,159 | 13,267 | 14,138 | 15,211 |
| 10 - 49 | 10,656 | 10,915 | 11,406 | 12,171 | 12,924 |
| 50 - 99 | 4,022 | 4,043 | 4,058 | 3,916 | 3,911 |
| 100 - 199 | 1,279 | 1,303 | 1,350 | 1,398 | 1,453 |
| 200 - 499 | 1,652 | 1,624 | 1,664 | 1,647 | 1,689 |
| 500 - 999 | 90 | 85 | 77 | 76 | 72 |
| 1,000 G.T. and over | 202 | 181 | 176 | 167 | 174 |
| Inland Water | 24,265 | 25,235 | 25,342 | 23,361 | 20,593 |
| Non-powered | 8,659 | 8,714 | 8,624 | 7,324 | 6,319 |
| Powered | 15,606 | 16,521 | 16,718 | 16,037 | 14,274 |
| Less than 5 G.T. | 15,602 | 16,514 | 16,709 | 16,025 | 14,274 |
| 5 G.T. and over | 4 | 7 | 9 | 12 | - |
| Number of F.R.P. Boats in Marine Total | 70,915 | 92,301 | 117,121 | 142,729 | 168,493 |
| Less than 1 G.T. | 27,463 | 34,635 | 41,844 | 48,766 | 54,994 |
| 1 - 3 | 27,533 | 36,127 | 46,612 | 57,450 | 69,025 |
| 3 - 5 | 12,730 | 16,962 | 21,917 | 27,522 | 32,877 |
| 5 - 10 | 1,763 | 2,743 | 4,073 | 5,350 | 6,938 |
| 10 - 20 | 1,047 | 1,590 | 2,360 | 3,268 | 4,215 |
| 20 G.T. and over | 195 | 244 | 315 | 373 | 444 |

# Ⅱ — 4 GROSS TONNAGES OF FISHING BOATS, 1975～1979

Unit : G. T.

| Size | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Total | 2,706,233 | 2,668,452 | 2,719,646 | 2,687,825 | 2,790,159 |
| Marine | 2,688,002 | 2,649,615 | 2,699,877 | 2,668,772 | 2,775,048 |
| Non-powered | 36,679 | 32,624 | 30,318 | 27,128 | 25,250 |
| Powered | 2,651,323 | 2,616,991 | 2,669,559 | 2,641,644 | 2,749,797 |
| Less than 5 G.T. | 525,844 | 549,044 | 575,815 | 599,754 | 627,970 |
| 5 - 9 | 87,408 | 94,641 | 103,887 | 111,423 | 120,022 |
| 10 - 49 | 225,531 | 225,896 | 230,283 | 239,636 | 250,153 |
| 50 - 99 | 321,114 | 321,272 | 321,244 | 305,447 | 304,334 |
| 100 - 199 | 184,944 | 186,573 | 192,272 | 199,491 | 207,358 |
| 200 - 499 | 539,175 | 522,037 | 547,175 | 544,401 | 560,814 |
| 500 - 999 | 68,294 | 64,717 | 59,215 | 58,869 | 56,070 |
| 1,000 G.T. and over | 699,012 | 652,811 | 639,667 | 582,624 | 623,073 |
| Inland Water | 18,230 | 18,837 | 19,769 | 19,052 | 15,111 |
| Non-powered | 4,765 | 4,487 | 4,400 | 3,710 | 3,381 |
| Powered | 13,465 | 14,350 | 15,369 | 15,342 | 11,729 |
| Less than 5 G.T. | 13,433 | 14,290 | 15,297 | 15,252 | 11,729 |
| 5 G.T. and over | 32 | 60 | 72 | 90 | - |
| Gross Tonnages of F.R.P. Boats in Marine Total | 159,674.60 | 216,235.09 | 287,040.60 | 362,860 | 445,406 |
| Less than 1 G.T. | 19,426.23 | 24,709.70 | 29,770.95 | 34,814 | 39,718 |
| 1 - 3 | 44,413.85 | 58,873.90 | 76,724.60 | 95,199 | 117,735 |
| 3 - 5 | 55,422.72 | 73,734.64 | 95,431.18 | 119,981 | 143,719 |
| 5 - 10 | 13,618.23 | 21,220.77 | 31,926.52 | 42,467 | 55,554 |
| 10 - 20 | 16,375.40 | 24,543.51 | 36,304.94 | 50,203 | 64,744 |
| 20 G.T. and over | 10,418.17 | 13,152.57 | 16,882.41 | 20,197 | 23,932 |

# III MARKETING OF FISHERY PRODUCT

## III — 1 QUANTITY AND PRICE OF LANDINGS BY COMMODITY AT FISH MARKETS IN PRODUCING AREAS, 1979

| Commodity | Quantity of landings | Price |
|---|---|---|
| Total of fishes, other marine animals, marine mammals and whales | 5,380,680 | 155 |
| Bluefin tuna | | |
| Fresh | 13,456 | 1,126 |
| Frozen, round type | 21,727 | 2,648 |
| Frozen, fillet type | 525 | 2,409 |
| Albacore | | |
| Fresh | 20,679 | 398 |
| Frozen, round type | 46,595 | 387 |
| Frozen, fillet type | 227 | 308 |
| Bigeye tuna | | |
| Fresh | 15,159 | 1,227 |
| Frozen, round type | 86,442 | 976 |
| Frozen, fillet type | 113 | 743 |
| Yellowfin tune | | |
| Fresh | 34,327 | 647 |
| Frozen, round type | 37,416 | 640 |
| Frozen, fillet type | 151 | 603 |
| Other tunas | | |
| Fresh | 10,187 | 435 |
| Frozen | 10,595 | 236 |
| Striped marlin | | |
| Fresh | 2,989 | 761 |
| Frozen, round type | 6,709 | 871 |
| Frozen, fillet type | 9 | 332 |
| Broadbill swordfish | | |
| Fresh | 9,220 | 591 |
| Frozen, round type | 1,071 | 640 |
| Frozen, fillet type | 4,800 | 667 |
| Black marlins | | |
| Fresh | 3,304 | 626 |
| Frozen, round type | 6,926 | 578 |
| Frozen, fillet type | 62 | 521 |
| Other swordfish, marlins and sailfish | | |
| Fresh | 1,795 | 817 |
| Frozen, round type | 322 | 391 |
| Frozen, fillet type | 117 | 325 |
| Skipjack | | |
| Fresh | 79,735 | 286 |
| Frozen | 136,334 | 232 |
| Salmons | | |
| Fresh | 18,923 | 832 |
| Frozen | 6,638 | 1,231 |
| Salted | 14,262 | 1,598 |
| Salmons (Pink and cherry salmons) | | |
| Fresh | 7,247 | 632 |
| Frozen | 3,974 | 813 |
| Salted | 595 | 677 |
| Sardine | 1,142,538 | 18 |
| Round herring | 25,151 | 58 |
| Jack mackerel | 63,198 | 437 |
| Scads | 84,273 | 137 |
| Mackerels | 1,168,090 | 45 |
| Saury | 212,380 | 71 |
| Common squid | | |
| Fresh | 41,293 | 487 |
| Frozen | 77,994 | 486 |
| Bastard halibut | 3,621 | 1,313 |
| Flounders, soles | | |
| Fresh | 61,827 | 349 |
| Frozen | 61,266 | 224 |
| Cod | | |
| Fresh | 24,063 | 182 |
| Frozen | 28,563 | 224 |
| Alaska pollack | | |
| Fresh | 628,204 | 74 |
| Frozen | 13,325 | 151 |
| Atka mackerel | 83,550 | 51 |
| "Menuke" Rockfishes | | |
| Fresh | 4,697 | 523 |
| Frozen | 12,739 | 399 |
| "Kichiji" Rockfishes | 8,327 | 542 |
| Sand fish | 4,822 | 334 |
| Deep sea smelts | 3,455 | 183 |
| Sharks | | |
| Fresh | 29,501 | 124 |
| Frozen | 6,662 | 324 |
| Yellow croaker | 5,828 | 118 |
| Other croakers | 28,347 | 184 |
| Lizard fishes | 14,622 | 119 |
| Butter fish | 3,022 | 578 |
| Sharp toothed eel | 13,524 | 312 |
| Hairtail | 18,901 | 153 |
| Gurnards | 1,869 | 317 |
| Skates and rays | 9,252 | 114 |
| Rod sea bream | 6,073 | 1,805 |
| Crimson sea bream | 1,133 | 908 |
| Yellow sea bream | 6,761 | 1,111 |
| Black sea bream | 438 | 1,308 |
| Other sea breams | | |
| Frozen | 6,294 | 68 |
| Yellowtails | 26,603 | 711 |
| Spanish mackerels | | |
| Fresh | 22,672 | 205 |
| Frozen | 1,899 | 385 |

Notes: 1) The quantity of landings is of the 67 fishing ports in the producing areas.
2) The prices here show the average prices per Kg, which are obtained by dividing the value of landings by the quantities of landings.

Unit { Quantity: Metric tons / Price: yen per Kg

| Commodity | Quantity of landings | Price |
|---|---|---|
| Dolphin fishes | 4,414 | 240 |
| Flying fishes | 1,102 | 252 |
| Frigate mackerel | 7,597 | 223 |
| Mallets | 655 | 342 |
| Common sea bass | 681 | 1,065 |
| Herring | | |
| Fresh | 3,878 | 265 |
| Frozen | 1,322 | 322 |
| Sand lance | 67,838 | 62 |
| Anchovy | 11,584 | 82 |
| Post larval | 1,301 | 287 |
| Other fishes | | |
| Fresh | 333,534 | 209 |
| Frozen | 67,377 | 358 |
| Salted | 1,541 | 1,478 |
| Cuttlefishes | | |
| Fresh | 7,184 | 351 |
| Frozen | 4,728 | 280 |
| Other squids and cuttlefishes | 195,743 | 333 |
| Octopuses | | |
| Fresh | 9,447 | 398 |
| Frozen | 5,567 | 252 |
| Spiny lobster | 64 | 4,944 |
| "Kuruma" prawn | 329 | 2,341 |
| Other lobster, prawn and shrimps | | |
| Fresh | 9,912 | 904 |
| Frozen | 1,065 | 2,636 |
| King crab | 197 | 985 |
| Tanner crab | 6,854 | 1,315 |
| Blue crabs | 1,011 | 942 |
| Other crabs | 36,790 | 202 |
| Sea urchins | | |
| With shells | 269 | 975 |
| Shelled | 187 | 10,022 |
| Sea cucumbers | 576 | 544 |
| Other marine animals | | |
| Fresh | 13,623 | 168 |
| Frozen | 456 | 460 |
| Marine mammals | 189 | 107 |
| Whale (by whaling) | | |
| Fresh | - | - |
| Frozen | - | - |
| Salted | - | - |

| Commodity | Quantity of landings | Price |
|---|---|---|
| Total of shellfishes | | |
| With shell | 17,371 | 329 |
| Shelled | 3,303 | 483 |
| Abalones with shell | 235 | 2,978 |
| Top shell with shell | 881 | 868 |
| Hard clams | | |
| With shell | 3 | 575 |
| Short-necked clams | | |
| With shell | 570 | 251 |
| Common scallop | | |
| With shell | 12,076 | 219 |
| Shelled | 365 | 1,017 |
| Hen clams | | |
| With shell | 231 | 724 |
| Shelled | 82 | 2,645 |
| "Mogai" clam | | |
| With shell | - | - |
| Shelled | - | - |
| Oyster | | |
| With shell | 18 | 514 |
| Shelled | 913 | 722 |
| Other shellfishes | | |
| With shell | 3,356 | 381 |
| Shelled | 1,943 | 258 |
| Total of seaweeds | | |
| Fresh | 583 | 328 |
| Dried | 2,998 | 864 |
| "Kombu" tangle | | |
| Dried | 2,921 | 857 |
| "Wakame" seaweed | | |
| Fresh | 244 | 114 |
| Dried | 18 | 3,010 |
| "Tengusa" agar-agars | | |
| Fresh | 3 | - |
| Drid | 1 | 713 |
| "Funori" seaweek | | |
| Fresh | 17 | 826 |
| Dried | 6 | 519 |
| Other seaweeds | | |
| Fresh | 320 | 454 |
| Dried | 52 | 786 |
| Total of dried laver | 7,659 | 203 |
| "Kuronori" laver | 7,659 | 203 |
| "Mazenori" laver | - | - |
| "Aonori" laver | - | - |

Note: 1) Quantity is expressed in unit of 10,000 sheets and price 10 sheets

# Ⅲ－2 QUANTITY AND PRICE OF ARRIVALS BY COMMODITY AT TOKYO CENTRAL WHOLESALE MARKETS, 1979

Unit { Quantity : Metric tons
Price : yen per kg

| Commodity | Quantity of arrivals | Price |
|---|---|---|
| Fresh | | |
| Marine fishes ..... | 186,187 | 785 |
| Bluefin tuna ..... | 5,336 | 1,901 |
| Albacore ..... | 591 | 388 |
| Bigeye tuna ..... | 2,287 | 2,316 |
| Yellowfin tuna ..... | 4,009 | 900 |
| Other tunas ..... | 2,247 | 998 |
| Striped marlin ..... | 489 | 1,394 |
| Broadbill swordfish ..... | 1,409 | 761 |
| Blue marlins ..... | 497 | 645 |
| Other marline ..... | 48 | 583 |
| Skipjacks ..... | 11,017 | 515 |
| Salmons ..... | 2,411 | 777 |
| Salmons (Pink and cherry salmons) | 297 | 1,121 |
| Sardine ..... | 8,546 | 122 |
| Round herring ..... | 50 | 273 |
| Jack mackerel ..... | 12,603 | 792 |
| Mackerels ..... | 14,464 | 184 |
| Saury ..... | 11,098 | 364 |
| Common squid ..... | 8,606 | 745 |
| Bastard halibut ..... | 925 | 1,513 |
| Flat fishes ..... | 9,142 | 787 |
| Cod ..... | 2,452 | 346 |
| Atka mackerel ..... | 1,462 | 85 |
| Rock fishes ..... | 2,784 | 802 |
| Sharks ..... | 3,607 | 234 |
| Yellow croaker ..... | - | - |
| Other croakers ..... | 1,155 | 378 |
| Sharp toothed eel ..... | 201 | 807 |
| Hairtail ..... | 483 | 678 |
| Red sea bream ..... | 1,406 | 1,510 |
| Crimson sea bream ..... | 265 | 1,872 |
| Yellow sea bream ..... | 85 | 1,090 |
| Yellowtail ..... | 22,138 | 894 |
| Fishery ..... | 6,308 | 825 |
| Culture ..... | 15,830 | 922 |
| Spanish mackerels ..... | 2,684 | 563 |
| Flying fishes ..... | 1,103 | 455 |
| Common sea bass ..... | 424 | 1,126 |
| Other fishes ..... | 35,573 | 811 |
| Cuttlefish ..... | 1,504 | 899 |
| Other squids and cuttlefishes | 3,616 | 588 |
| Octopuses ..... | 473 | 552 |
| Spiny lobstor ..... | 85 | 6,050 |
| "Kurumaebi" prawn ..... | 61 | 6,259 |
| "Taisho ebi" prawn ..... | 581 | 1,920 |
| Other shrimps ..... | 3,535 | 2,039 |
| Crabs ..... | 2,387 | 925 |
| Other marine animals .... | 2,051 | 3,871 |
| Inland water fishes ..... | 4,492 | 1,307 |

| Commodity | Quantity of arrivals | Price |
|---|---|---|
| Shellfishes ..... | 53,069 | 758 |
| Abalones with shell ..... | 1,581 | 2,885 |
| Short necked clam with shell | 6,693 | 281 |
| Oyster shelled ..... | 4,105 | 839 |
| Freshwater clam with shell | 5,170 | 158 |
| Other shellfishes ..... | 35,520 | 831 |
| Frozen | | |
| Bluefin tuna ..... | 11,867 | 2,678 |
| Albacore ..... | 2,524 | 350 |
| Bigeye tuna ..... | 45,887 | 1,097 |
| Yellowfin tuna ..... | 7,868 | 778 |
| Other tunas ..... | - | - |
| Striped marlin ..... | 3,042 | 970 |
| Bradbill swordfish ..... | 6,379 | 779 |
| Blue marlins ..... | 1,043 | 724 |
| Other marlins ..... | 61 | 401 |
| Skipjack ..... | 644 | 539 |
| Salmons ..... | 15,472 | 1,286 |
| Salmons (Pink and cherry salmons) | 2,376 | 935 |
| Jack mackerel ..... | 5,545 | 324 |
| Mackerels ..... | 4,712 | 155 |
| Saury ..... | 3,529 | 262 |
| Common squid ..... | 15,901 | 573 |
| Flat fishes ..... | 10,651 | 515 |
| Cod ..... | 8,224 | 213 |
| Rock fishes ..... | 4,920 | 402 |
| Sea breams ..... | 7,987 | 341 |
| Spanish mackerels ..... | 2,113 | 278 |
| Herring ..... | 2,571 | 367 |
| Other fishes ..... | 54,865 | 463 |
| "Mongo-ika" cuttlefish ... | 19,644 | 988 |
| Other cuttlefishes ..... | 17,446 | 520 |
| Octopuses ..... | 13,623 | 768 |
| "Taisho ebi" prawn ..... | 693 | 2,274 |
| Meat of whale | | |
| Fresh ..... | 318 | 1,169 |
| Frozen ..... | 3,422 | 602 |
| Processed fishery product | | |
| Salted and dried | | |
| Sardine, round herring .. | 9,796 | 254 |
| Jack mackerel, scad ..... | 12,324 | 562 |
| Mackerels ..... | 3,321 | 204 |
| Saury ..... | 7,827 | 250 |
| Salted | | |
| Salmons ..... | 24,765 | 1,142 |
| Salmons(Pink and cherry salmon | 3,462 | 790 |
| Mackerels ..... | 325 | 257 |
| Other salted product .... | 22,992 | 2,285 |
| Processed whale products . | 535 | 987 |
| Seaweeds ..... | 5,152 | 397 |
| Other processed fishers products ..... | 191,711 | 595 |

Note: The prices here show the average price which are obtained by dividing the value of arrivals by the quantities of arrivals.

# Ⅲ－3 PRICES OF MAJOR FISHERY PRODUCTS BY STEPS OF DISTRIBUTION IN TOKYO, 1979

Unit : Yen per kg

| commodity | | Wholesale price | Broker price | Retail price | Ratio of retail price to wholesale price % |
|---|---|---|---|---|---|
| Bigeye tuna 1) | frozen | 1,094 | 1,352 | 3,839 | 351 |
| Yellowfin tuna 1) | frozen | 722 | 1,115 | 2,274 | 315 |
| Skipjack tuna 1) | fresh | 542 | 673 | 1,283 | 237 |
| Chum salmon 1) | salted | 1,261 | 1,531 | 2,207 | 175 |
| Sardine (Round fish) | fresh | 157 | 194 | 372 | 237 |
| Jack mackerel (Round fish) | fresh | 1,019 | 1,273 | 1,837 | 180 |
| Mackerel (Round fish) | fresh | 202 | 268 | 429 | 212 |
| | frozen | 149 | 180 | 326 | 219 |
| Saury (Round fish) | fresh | 474 | 604 | 934 | 197 |
| | frozen | 349 | 508 | 872 | 250 |
| Yellowtails 1) | fishery | 692 | 905 | 1,791 | 259 |
| | cultured | 962 | 1,056 | 2,361 | 245 |
| Common squid (Round fish) | fresh | 819 | 1,007 | 1,385 | 169 |
| | frozen | 621 | 693 | 1,084 | 175 |
| Oyster (Without shell) | fresh | 1,208 | 1,324 | 2,049 | 170 |

Note : 1) Round fish for wholesale and broker price and sliced meat for retail price.

# Ⅲ — 4 PROCESSED FISHERY

| Proceseed products 1) | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Boiled and dried | 79.9 | 84.2 | 86.9 | 82.4 | 99.9 |
| Anchovies | 60.9 | 63.9 | 62.5 | 63.2 | 78.4 |
| Jack mackerel | 3.2 | 2.9 | 1.9 | 1.7 | 1.1 |
| Sand lance | 7.6 | 9.5 | 11.8 | 7.7 | 9.3 |
| Others | 8.2 | 7.9 | 10.7 | 9.8 | 11.1 |
| Cured | 120.3 | 121.0 | 126.9 | 130.7 | 126.5 |
| Mackerels | 25.7 | 25.9 | 35.0 | 28.9 | 31.0 |
| Skipjack | 32.2 | 37.2 | 35.7 | 38.2 | 32.4 |
| Others | 62.4 | 57.9 | 56.2 | 63.6 | 63.1 |
| Dried | 47.7 | 42.7 | 39.9 | 37.5 | 30.6 |
| Herring | 19.9 | 19.2 | 17.4 | 18.9 | 14.4 |
| Squids | 12.2 | 8.6 | 9.4 | 7.6 | 5.9 |
| Others | 15.6 | 14.9 | 13.1 | 11.0 | 10.3 |
| Dressed frozen | 126.3 | 122.6 | 126.0 | 116.1 | 145.5 |
| Frozen | 2,980.6 | 3,111.1 | 3,200.1 | 3,153 2 | 3,171.6 |
| Albacore, tunas | 191.7 | 224.2 | 191.4 | 210.2 | 202.1 |
| Cod, Alaska pollack | 75.3 | 95.6 | 129.1 | 114.2 | 101.0 |
| Halibut, flounders | 148.3 | 143.1 | 103.0 | 136.2 | 112.3 |
| Mackerels | 299.0 | 336.0 | 414.2 | 518.3 | 574.8 |
| Marlins | 28.8 | 29.0 | 20.3 | 22.9 | 23.5 |
| Sardines, anchovies | 311.0 | 401.2 | 420.5 | 434.1 | 475.2 |
| Saury | 183.5 | 101.7 | 230.5 | 281.7 | 230.6 |
| Skipjack | 145.0 | 164.8 | 159.9 | 164.1 | 148.7 |
| Squids, cuttlefishes | 231.1 | 221.4 | 205.0 | 254.3 | 251.5 |
| Whales | 74.6 | 40.6 | 38.4 | 18.2 | 15.4 |
| Minced fish meats | 387.7 | 424.2 | 413.4 | 365.6 | 367.6 |
| Others | 904.6 | 929.3 | 874.4 | 633.4 | 668.9 |
| Kneaded | 1,155.0 | 1,136.7 | 1,087.0 | 1,037.2 | 976.2 |
| "Chikuwa" 2) | 258.9 | 235.3 | 214.4 | 190.9 | 177.2 |
| Fish sausage | 111.3 | 112.6 | 116.9 | 107.2 | 106.8 |
| "Kamaboko" 3) | 447.0 | 451.5 | 428.2 | 427.1 | 402.4 |
| Others | 337.8 | 337.3 | 327.5 | 312.0 | 289.8 |
| Manure and feed | 1,034.8 | 930.1 | 915.6 | 951.4 | 962.6 |
| Fish meal | 512.6 | 529.5 | 496.8 | 497.4 | 560.0 |
| Dried press cake | 317.0 | 208.7 | 257.0 | 299.9 | 238.5 |
| Others | 205.2 | 191.9 | 161.8 | 154.1 | 164.1 |
| Oil and fat | 176.6 | 165.6 | 208.2 | 243.5 | 253.4 |
| Fish oil, fish viscera oil | 136.3 | 141.1 | 187.2 | 230.7 | 245.8 |
| Whale oil | 40.3 | 24.5 | 21.0 | 12.8 | 7.6 |
| Salted | 255.5 | 199.7 | 227.5 | 242.7 | 250.9 |
| Alaska pollack roe, cod roe | 44.8 | 40.6 | 36.4 | 23.0 | 25.0 |
| Cod, Alaska pollack | 18.0 | 15.0 | 17.4 | 19.0 | 18.4 |
| Herring roe, salmon roe | 12.9 | 14.1 | 12.8 | 12.5 | 10.4 |
| Mackerels | 46.5 | 26.2 | 44.1 | 75.1 | 62.0 |
| Salmons | 73.9 | 55.5 | 53.0 | 61.7 | 78.2 |
| Trouts | 37.6 | 22.6 | 38.0 | 11.0 | 17.5 |
| Others | 21.8 | 25.7 | 25.8 | 40.4 | 39.4 |

# PRODUCTS, 1975～1979

Unit { Thousand metric tons / Canned: ton

| Processed products | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Salted and dried ..... | 242.7 | 250.9 | 242.1 | 246.0 | 255.3 |
| Jack mackerel ..... | 47.5 | 53.3 | 48.7 | 50.2 | 52.4 |
| Mackerels ..... | 29.7 | 35.6 | 26.7 | 28.6 | 30.0 |
| Sardines, anchovies ..... | 61.6 | 72.6 | 78.2 | 74.8 | 71.0 |
| Saury ..... | 29.7 | 11.2 | 18.4 | 28.1 | 32.2 |
| Others ..... | 74.2 | 78.2 | 70.1 | 64.3 | 69.7 |
| Smoked ..... | 8.3 | 10.3 | 10.0 | 12.1 | 11.3 |
| Salmons, trouts ..... | 1.3 | 1.6 | 1.4 | 1.4 | 1.7 |
| Squids, cuttlefishes ..... | 0.6 | 1.2 | 1.8 | 3.8 | 4.0 |
| Whale meat ..... | 1.4 | 1.6 | 1.0 | 1.1 | 1.1 |
| Others ..... | 5.0 | 5.9 | 5.8 | 5.8 | 4.5 |
| Others | 292.1 | 308.2 | 314.5 | 352.2 | 351.4 |
| Canned 4) | | | | | |
| Total | 371,337 | 382,465 | 405,450 | 406,305 | 397,532 |
| (Actual number of cases) | (34,407) | (35,882) | (38,540) | (37,442) | (36,689) |
| Shellfish ..... | 12,532 | 15,079 | 12,699 | 11,248 | 12,171 |
| Crabs ..... | 2,025 | 2,799 | 2,250 | 2,849 | 3,363 |
| Jack mackerel ..... | - | 158 | 37 | - | - |
| Mackerels ..... | 211,204 | 184,582 | 211,074 | 222,138 | 203,803 |
| Prawns, shrimps ..... | 13 | 21 | 40 | 32 | 53 |
| Salmons, trouts ..... | 19,895 | 24,308 | 17,813 | 1,656 | 4,814 |
| Sardines, anchovies ..... | 9,125 | 35,217 | 45,506 | 51,134 | 53,957 |
| Saury ..... | 11,012 | 7,062 | 9,691 | 10,629 | 8,043 |
| Squids, cuttlefishes .... | 5,299 | 3,993 | 3,577 | 3,635 | 3,340 |
| Tunas, skipjack ..... | 83,195 | 93,229 | 84,276 | 87,563 | 95,130 |
| Whale ..... | 12,132 | 10,866 | 10,989 | 9,677 | 7,620 |
| Others ..... | 17,437 | 20,230 | 20,197 | 16,992 | 17,409 |

Notes : 1) Excluding dried seaweeds.

2) Baked products of kneaded fish meat with seasonings.

3) Steamed products of kneaded fish meat with seasonings.

4) Surveyed by the Canners Association of Japan.

# Ⅲ－5 VALUE OF IMPORTS AND EXPORTS

## Imports

| Year | Total | Live | Fresh and frozen | | | Salted dried and smoked |
|---|---|---|---|---|---|---|
| | | | Shrimps | Skipjack, tunas and marlins | Others | |
| 1970 | 114,628 | 5,851 | 49,329 | 9,070 | 18,698 | 12,478 |
| 1971 | 153,345 | 7,779 | 73,335 | 11,538 | 32,832 | 13,838 |
| 1972 | 190,338 | 12,418 | 89,918 | 10,422 | 36,754 | 22,878 |
| 1973 | 300,074 | 17,752 | 118,207 | 14,171 | 71,137 | 42,059 |
| 1974 | 323,240 | 19,862 | 117,571 | 21,684 | 90,242 | 40,052 |
| 1975 | 385,529 | 24,862 | 137,517 | 39,527 | 107,412 | 35,166 |
| 1976 | 563,649 | 30,680 | 223,128 | 46,206 | 150,745 | 58,279 |
| 1977 | 657,714 | 32,437 | 219,509 | 68,205 | 191,668 | 63,167 |
| 1978 | 676,455 | 32,132 | 222,528 | 46,963 | 238,577 | 78,434 |
| 1979 | 930,764 | 29,126 | 313,168 | 69,552 | 331,739 | 111,625 |

## Exports

| Year | Total | Fresh and Frozen | | Salted,dried and smoked | | |
|---|---|---|---|---|---|---|
| | | Skipjack, tunas and marlins | Others | | Jack mackerel and mackerels | Salmons |
| 1970 | 140,717 | 13,983 | 21,573 | 4,248 | 19,573 | 16,181 |
| 1971 | 146,662 | 13,794 | 25,487 | 4,230 | 23,140 | 18,796 |
| 1972 | 162,179 | 17,752 | 36,629 | 4,513 | 23,286 | 17,196 |
| 1973 | 173,494 | 21,632 | 44,688 | 4,745 | 26,259 | 10,419 |
| 1974 | 201,965 | 24,331 | 42,714 | 5,398 | 35,554 | 12,993 |
| 1975 | 168,696 | 3,289 | 38,357 | 5,783 | 35,732 | 15,102 |
| 1976 | 220,833 | 13,958 | 49,288 | 5,942 | 34,477 | 17,625 |
| 1977 | 184,180 | 12,906 | 37,389 | 5,877 | 44,423 | 3,723 |
| 1978 | 171,250 | 13,849 | 30,654 | 5,736 | 35,406 | 3,144 |
| 1979 | 196,363 | 9,693 | 36,439 | 6,723 | 35,442 | 139 |

# BY COMMODITY, 1970～1979

Unit: Million yen

| Raw agar-agar | Fish meals | Pearls | Oil and fat | Prepared | Dried laver | Others |
|---|---|---|---|---|---|---|
| 772 | 6,689 | 1,474 | 229 | 3,561 | 3,099 | 3,378 |
| 610 | 1,414 | 1,315 | 356 | 5,721 | 1,337 | 3,272 |
| 775 | 3,266 | 1,550 | 351 | 7,384 | 768 | 3,854 |
| 1,309 | 8,738 | 2,175 | 445 | 14,784 | 2,958 | 6,339 |
| 2,142 | 3,404 | 2,158 | 569 | 18,934 | 59 | 6,563 |
| 1,748 | 5,856 | 3,147 | 904 | 22,884 | 221 | 6,285 |
| 2,153 | 5,485 | 4,871 | 665 | 30,660 | 42 | 10,735 |
| 1,596 | 24,827 | 6,079 | 452 | 32,182 | 264 | 12,328 |
| 1,759 | 9,341 | 7,839 | 1,252 | 28,042 | - | 9,588 |
| 2,386 | 9,773 | 8,996 | 1,371 | 38,717 | - | 14,311 |

Unit: Million yen

| Canned | | | | Oil and fat | | Pearls | Others |
|---|---|---|---|---|---|---|---|
| Sardines and anchovies | Tunas | Crabs | Others | Whale oil | Others | | |
| 79 | 28,862 | 2,929 | 5,552 | 2,597 | 1,307 | 14,725 | 9,110 |
| 99 | 23,016 | 3,966 | 5,218 | 4,681 | 2,431 | 12,599 | 9,205 |
| 338 | 27,091 | 1,724 | 5,875 | 1,555 | 1,893 | 14,189 | 10,138 |
| 712 | 24,440 | 315 | 5,072 | 1,693 | 3,048 | 17,867 | 12,604 |
| 834 | 29,119 | 644 | 5,627 | 3,930 | 11,268 | 17,484 | 12,069 |
| 1,343 | 27,664 | 454 | 3,646 | 1,959 | 5,481 | 17,679 | 12,207 |
| 7,536 | 35,932 | 890 | 4,367 | 1,447 | 7,696 | 22,920 | 19,355 |
| 8,227 | 25,626 | 581 | 3,784 | 1,412 | 12,059 | 10,296 | 17,877 |
| 7,951 | 25,007 | 62 | 3,654 | 522 | 17,665 | 8,818 | 18,782 |
| 10,164 | 26,536 | 25 | 3,233 | - | 15,910 | 32,090 | 19,969 |

# Ⅲ — 6 VALUE OF IMPORTS AND

## Imports

| Year | Total | U. S. A. 1 | Republic of Korea 2 | Taiwan 3 | Canada 4 | Indonesia 5 | India 6 |
|---|---|---|---|---|---|---|---|
| 1970 | 114,628 | 8,700 | 14,203 | 9,151 | 1,846 | 3,791 | 5,317 |
| 1971 | 153,345 | 10,236 | 17,327 | 13,324 | 3,396 | 8,336 | 8,601 |
| 1972 | 190,338 | 7,570 | 24,623 | 17,322 | 7,310 | 14,992 | 12,358 |
| 1973 | 300,074 | 24,243 | 42,273 | 25,338 | 17,401 | 22,235 | 17,750 |
| 1974 | 323,240 | 16,326 | 62,763 | 28,746 | 14,167 | 24,504 | 17,391 |
| 1975 | 385,529 | 21,768 | 85,639 | 44,186 | 13,363 | 29,513 | 27,847 |
| 1976 | 563,649 | 28,441 | 115,752 | 54,625 | 27,547 | 48,431 | 40,984 |
| 1977 | 657,714 | 62,310 | 129,344 | 67,545 | 44,879 | 48,802 | 35,229 |
| 1978 | 676,455 | 104,710 | 100,497 | 66,459 | 53,974 | 47,024 | 36,340 |
| 1979 | 930,764 | 143,769 | 132,817 | 80,065 | 59,620 | 60,345 | 55,978 |

## Exports

| Year | Total | U. S. A. 1 | Netherlands 2 | Nigeria 3 | Taiwan 4 | Hong Kong 5 | Papua New Guinea 6 |
|---|---|---|---|---|---|---|---|
| 1970 | 140,717 | 41,951 | 4,982 | 34 | 1,830 | 4,123 | 1,177 |
| 1971 | 146,662 | 40,107 | 6,985 | 134 | 2,071 | 3,011 | 1,356 |
| 1972 | 162,179 | 59,753 | 4,992 | 507 | 2,996 | 4,053 | 1,478 |
| 1973 | 173,494 | 61,664 | 4,088 | 386 | 5,939 | 4,662 | 2,325 |
| 1974 | 201,965 | 62,373 | 14,400 | 1,176 | 5,841 | 4,378 | 3,157 |
| 1975 | 168,696 | 38,142 | 9,935 | 3,851 | 8,363 | 5,290 | 2,697 |
| 1976 | 220,833 | 57,042 | 11,972 | 4,718 | 11,969 | 7,403 | 4,623 |
| 1977 | 184,180 | 39,447 | 14,171 | 11,117 | 9,500 | 7,636 | 4,709 |
| 1978 | 171,250 | 33,574 | 18,813 | 14,785 | 11,266 | 7,833 | 6,368 |
| 1979 | 196,363 | 36,122 | 15,076 | 12,158 | 11,723 | 10,539 | 4,693 |

# EXPORTS BY COUNTRY, 1970～1979

Unit: Million yen

| China | Spain | Australia | Thailand | Hong Kong | Mexico | U. S. S. R. | Malaysia | Others |
|---|---|---|---|---|---|---|---|---|
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 10,815 | 2,519 | 5,779 | 5,651 | 3,819 | 7,355 | 3,238 | 2,766 | 29,678 |
| 11,049 | 9,332 | 7,206 | 7,902 | 5,651 | 7,856 | 2,936 | 5,063 | 35,130 |
| 15,261 | 8,763 | 8,516 | 10,295 | 5,485 | 7,102 | 2,481 | 6,158 | 42,102 |
| 20,824 | 9,444 | 10,795 | 14,082 | 5,879 | 12,323 | 6,067 | 8,122 | 63,298 |
| 29,020 | 17,872 | 11,179 | 12,901 | 7,069 | 7,075 | 10,307 | 5,827 | 58,093 |
| 22,651 | 19,655 | 11,235 | 20,934 | 8,743 | 7,891 | 8,383 | 6,236 | 57,385 |
| 24,750 | 27,844 | 21,160 | 28,846 | 15,257 | 13,516 | 10,947 | 15,122 | 90,427 |
| 19,962 | 19,754 | 25,496 | 23,733 | 18,981 | 10,213 | 14,662 | 15,647 | 121,157 |
| 32,489 | 24,701 | 24,328 | 24,305 | 16,530 | 14,877 | 13,978 | 11,537 | 104,706 |
| 43,252 | 43,260 | 41,503 | 38,447 | 19,116 | 12,642 | 16,241 | 18,864 | 164,845 |

Unit: Million yen

| Canada | United Kingdom | Australia | Singapore | Saudi Arabia | Philippines | S. Africa | Switzerland | Others |
|---|---|---|---|---|---|---|---|---|
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 3,932 | 16,835 | 5,322 | 5,220 | 192 | 5,760 | 1,311 | 3,735 | 39,247 |
| 4,833 | 15,763 | 4,971 | 2,834 | 146 | 6,549 | 1,428 | 3,507 | 47,216 |
| 5,963 | 12,622 | 4,741 | 2,328 | 373 | 5,200 | 1,175 | 4,553 | 44,662 |
| 7,437 | 10,520 | 5,363 | 3,463 | 902 | 5,301 | 1,973 | 6,146 | 46,826 |
| 7,151 | 10,983 | 8,383 | 3,618 | 1,406 | 8,316 | 3,091 | 4,729 | 57,764 |
| 6,843 | 12,354 | 5,227 | 5,428 | 1,713 | 7,770 | 2,881 | 4,668 | 48,939 |
| 8,831 | 14,877 | 8,747 | 3,798 | 2,287 | 8,300 | 4,097 | 6,204 | 59,030 |
| 6,033 | 4,850 | 5,862 | 4,763 | 4,491 | 5,897 | 3,989 | 3,864 | 62,150 |
| 5,766 | 5,056 | 3,985 | 3,920 | 3,300 | 3,179 | 2,979 | 2,583 | 47,843 |
| 6,968 | 6,235 | 3,924 | 3,519 | 3,273 | 3,789 | 2,967 | 8,265 | 67,112 |

# Ⅲ－7 VALUE OF IMPORTS AND EXPORTS (by Country, and by Commodity)

## Imports

| Country of origin | | Total | Live | Fresh and | | | |
|---|---|---|---|---|---|---|---|
| | | | | Shrimps | Squids & cuttlefish | Octopuses | Skipjack, tunas and marlins |
| Total | | 930,764 | 29,126 | 313,168 | 75,812 | 38,986 | 69,552 |
| U.S.A | 1 | 143,769 | 247 | 632 | 761 | 47 | 1,452 |
| Republic of Korea | 2 | 132,817 | 4,278 | 3,047 | 17,308 | 3,374 | 40,356 |
| Taiwan | 3 | 80,065 | 22,947 | 9,696 | 3,401 | 107 | 19,158 |
| Indonesia | 4 | 60,345 | 4 | 56,518 | 316 | - | 408 |
| Canada | 5 | 59,620 | 37 | 561 | 3,400 | 3 | 579 |
| India | 6 | 55,978 | - | 54,975 | 896 | - | - |
| Spain | 7 | 43,260 | - | 26 | 10,932 | 28,488 | 409 |
| China | 8 | 43,252 | 164 | 29,039 | 168 | 17 | 0 |
| Australia | 9 | 41,503 | 242 | 34,018 | 12 | 4 | 27 |
| Thailand | 10 | 38,447 | 109 | 19,278 | 9,658 | 1,188 | - |
| Hong Kong | 11 | 19,116 | 450 | 10,716 | 766 | 0 | - |
| Malaysia | 12 | 18,864 | - | 13,217 | 1,384 | 4 | 1 |
| U.S.S.R. | 13 | 16,241 | - | 451 | - | - | - |
| Mexico | 14 | 12,642 | 1 | 11,849 | 207 | 65 | - |
| Others | | 164,845 | 647 | 69,145 | 26,603 | 5,689 | 7,162 |

## Exports

| Country of destination | | Total | Fresh and frozen products | Salted dried and smoked | | |
|---|---|---|---|---|---|---|
| | | | | | Mackerels | Salmons |
| Total | | 196,363 | 46,132 | 6,723 | 35,442 | 139 |
| U.S.A | 1 | 36,122 | 14,699 | 1,184 | 208 | 1 |
| Netherland | 2 | 15,076 | 576 | 20 | 152 | 77 |
| Nigeria | 3 | 12,158 | 170 | 4 | 11,911 | - |
| Taiwan | 4 | 11,723 | 422 | 2,032 | - | 0 |
| Hong Kong | 5 | 10,539 | 226 | 2,201 | 42 | - |
| West Germany | 6 | 10,205 | 570 | 11 | 12 | - |
| Switzerland | 7 | 8,265 | - | 1 | - | - |
| Canada | 8 | 6,968 | 1,733 | 51 | 56 | 17 |
| United Kingdom | 9 | 6,235 | 330 | 27 | 92 | 25 |
| Italy | 10 | 4,777 | 3,883 | 15 | 113 | - |
| Papua New Guinea | 11 | 4,693 | 474 | 0 | 3,995 | - |
| Australia | 12 | 3,924 | 2,725 | 23 | 179 | - |
| Philippines | 13 | 3,789 | 7 | 4 | 1,518 | - |
| Singapore | 14 | 3,519 | 323 | 390 | 465 | - |
| Others | | 58,370 | 19,994 | 760 | 16,699 | 19 |

# OF FISHERY PRODUCTS, 1979

Unit: Million yen

| frozen | | | Salted dried and smoked | Raw agar-agar | Fish meals | Pearls | Oil and fat | Prepared | Others |
|---|---|---|---|---|---|---|---|---|---|
| Salmons & trouts | Crabs | Others | | | | | | | |
| 58,425 | 42,102 | 116,414 | 111,625 | 1,486 | 9,773 | 8,996 | 1,371 | 38,717 | 15,211 |
| 51,550 | 37,416 | 11,355 | 36,407 | 13 | - | 275 | 1 | 2,656 | 957 |
| 30 | 3,417 | 34,079 | 10,604 | 698 | 39 | - | 45 | 8,374 | 7,167 |
| - | 33 | 6,739 | 425 | 53 | - | - | 40 | 17,913 | 553 |
| - | - | 24 | 1,521 | - | - | 505 | - | 176 | 873 |
| 5,895 | 160 | 5,372 | 43,280 | 0 | 11 | - | - | 317 | 5 |
| - | - | 57 | 2 | - | - | 34 | - | 12 | 2 |
| - | - | 12,918 | 74 | 124 | - | 11 | 244 | 33 | 1 |
| - | 188 | 3,880 | 4,956 | 16 | - | 2,736 | - | 1,840 | 248 |
| - | 0 | 2,068 | 20 | - | - | 3,634 | - | 1,419 | 59 |
| - | 0 | 1,889 | 4,190 | - | - | 14 | - | 1,963 | 157 |
| - | 99 | 6,594 | 78 | - | 3 | 302 | - | 67 | 41 |
| - | 0 | 108 | 3,889 | - | - | 88 | - | 173 | 1 |
| 255 | 671 | 11,879 | 504 | - | 951 | - | 306 | 1,223 | 1 |
| 25 | - | 203 | 71 | - | - | - | - | 140 | 81 |
| 670 | 118 | 19,254 | 5,604 | 582 | 8,769 | 1,397 | 735 | 2,411 | 5,065 |

Unit: Million yen

| Canned products | | | | Oil and fat | Peals | Others |
|---|---|---|---|---|---|---|
| Sardines and anchovies | Tunas | Crab | Others | | | |
| 10,163 | 11,520 | 25 | 18,250 | 17,381 | 32,090 | 18,498 |
| 347 | 4,254 | 6 | 5,208 | 276 | 7,665 | 2,274 |
| 144 | 76 | 5 | 63 | 13,613 | 209 | 141 |
| 57 | 3 | - | 10 | 2 | - | 1 |
| - | 4 | 2 | 39 | 287 | - | 8,937 |
| 310 | 6 | 0 | 143 | 0 | 3,435 | 4,176 |
| - | 265 | - | 766 | 826 | 7,548 | 207 |
| 31 | 962 | - | 1,292 | 14 | 5,751 | 214 |
| 9 | 3,004 | - | 1,581 | 30 | 407 | 80 |
| 1,542 | 21 | - | 2,899 | 642 | 517 | 140 |
| - | 18 | - | 26 | 4 | 339 | 379 |
| 223 | - | - | 1 | - | - | - |
| 128 | 41 | - | 422 | 28 | 171 | 207 |
| 2,009 | - | - | 243 | 3 | - | 5 |
| 1,182 | 2 | - | 36 | 370 | 285 | 466 |
| 4,181 | 2,864 | 12 | 5,321 | 1,286 | 5,763 | 1,271 |

# Ⅲ — 8 FOOD BALANCE SHEET ON

| Description | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| (FISH AND SHELLFISH) (Live weight base) | | | | | |
| Domestic production | 9,918 | 9,990 | 10,126 | 10,335 | 9,993 |
| For domestic consumption ..... | 8,928 | 8,961 | 9,274 | 9,289 | 8,967 |
| Fresh and frozen ..... | 2,322 | 2,353 | 2,412 | 1,999 | 1,839 |
| Dried, salted and smoked .. | 1,709 | 1,734 | 1,830 | 2,040 | 2,009 |
| Kneaded ..... | 2,460 | 2,403 | 2,259 | 2,164 | 1,971 |
| Fish sausage ..... | 166 | 169 | 173 | 166 | 170 |
| Canned ..... | 140 | 238 | 333 | 265 | 280 |
| Feeds ..... | 2,131 | 2,064 | 2,267 | 2,655 | 2,698 |
| For exports ..... | 990 | 1,029 | 852 | 1,046 | 1,026 |
| Fresh and frozen ..... | 193 | 236 | 196 | 202 | 194 |
| Canned ..... | 544 | 549 | 466 | 530 | 535 |
| Others for food use ..... | 18 | 11 | 9 | 8 | 9 |
| Feeds ..... | 235 | 233 | 181 | 306 | 288 |
| Change in stock ..... | ... | ... | 742 | Δ 82 | Δ 94 |
| For food use ..... | ... | ... | 441 | Δ 38 | Δ 86 |
| For feeds ..... | ... | ... | 301 | Δ 44 | Δ 8 |
| Imports | 1,088 | 1,136 | 1,848 | 1,479 | 1,706 |
| For food use ..... | 752 | 866 | 999 | 1,082 | 1,234 |
| For feeds ..... | 336 | 270 | 849 | 397 | 472 |
| Domestic supply | 10,016 | 10,097 | 10,380 | 10,850 | 10,767 |
| For food use ..... | 7,549 | 7,763 | 7,565 | 7,754 | 7,589 |
| Domestic production ..... | 6,797 | 6,897 | 6,566 | 6,672 | 6,355 |
| Imports ..... | 752 | 866 | 999 | 1,082 | 1,234 |
| For feeds ..... | 2,467 | 2,334 | 2,815 | 3,096 | 3,178 |
| Domestic production ..... | 2,131 | 2,064 | 1,966 | 2,699 | 2,706 |
| Imports ..... | 336 | 270 | 849 | 397 | 472 |

# FISHERY PRODUCTS, 1975~1979

Unit: Thousand metric tons

| Description | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| (WHALE) | | | | | |
| Domestic production | 76 | 44 | 42 | 24 | 19 |
| For domestic consumption ..... | 76 | 44 | 42 | 24 | 19 |
| For exports ..... | 0 | 0 | 0 | 0 | 0 |
| Imports | 29 | 32 | 37 | 34 | 27 |
| Domestic supply | 105 | 76 | 79 | 58 | 46 |
| For food use ..... | 105 | 76 | 79 | 58 | 46 |
| For feeds ..... | - | - | - | - | - |
| (SEAWEED) (dried weight base) | | | | | |
| Domestic production | 126 | 133 | 128 | 128 | 128 |
| For domestic consumption ..... | 122 | 129 | 123 | 124 | 123 |
| For exports ..... | 4 | 4 | 5 | 4 | 5 |
| Imports | 25 | 47 | 48 | 43 | 49 |
| Domestic supply | 147 | 176 | 171 | 167 | 172 |
| For food use ..... | 125 | 147 | 142 | 135 | 142 |
| For feeds ..... | 22 | 29 | 29 | 32 | 30 |
| Per capita food supply (unit : kgs) | | | | | |
| Fish and shellfishes ..... | 67.4 | 68.6 | 66.3 | 67.3 | 65.3 |
| Whales ..... | 0.9 | 0.7 | 0.7 | 0.5 | 0.4 |
| Seaweeds ..... | 1.1 | 1.3 | 1.2 | 1.4 | 1.5 |
| Population (Unit: Million persons) 1)..... | 112 | 113 | 114 | 115 | 116 |

Note: 1) Data are based on the surveys undertaken as of October 1st of the year.

# Ⅲ — 9 AVERAGE CONSUMPTION IN QUANTITY OF FISHERY

## 1) Workers household(Cities With population of 50,000 and over)

Unit: gram

| Item | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Fresh and frozen | | | | | |
| Cod, Alaska pollack ..... | 1,038 | 949 | 752 | 732 | 732 |
| Flounders, halibuts ..... | 2,875 | 2,879 | 2,765 | 2,641 | 2,653 |
| Jack mackerel ..... | 3,367 | 3,338 | 2,577 | 2,211 | 2,390 |
| Mackerels ..... | 3,308 | 2,935 | 3,231 | 3,170 | 2,740 |
| Salmons, trouts ..... | 1,284 | 1,406 | 1,070 | 992 | 943 |
| Sardines, anchovies ..... | 2,086 | 2,510 | 3,014 | 2,498 | 2,235 |
| Saury ..... | 2,238 | 1,616 | 1,389 | 2,158 | 2,479 |
| Sea breams ..... | 1,110 | 1,123 | 1,041 | 1,100 | 1,139 |
| Shellfishes ..... | 5,560 | 5,845 | 5,799 | 5,775 | 5,673 |
| Shrimp, prawn, crab ..... | 4,490 | 4,046 | 3,671 | 4,131 | 3,903 |
| Skipjack ..... | 1,042 | 1,359 | 1,190 | 1,348 | --- |
| Squids, cuttlefishes ..... | 6,985 | 6,729 | 6,322 | 6,154 | 6,345 |
| Tunas, marlins ..... | 3,423 | 3,573 | 3,498 | 3,925 | 3,617 |
| Yellowtail ..... | 2,121 | 2,356 | 2,053 | 2,282 | 2,566 |
| Others ..... | 16,893 | 16,415 | 15,187 | 15,138 | 16,471 |
| Processed fishery products | | | | | |
| Boiled and dried anchovies . | 707 | 649 | 628 | 647 | 609 |
| Canned (case) ..... | 12.77 | 12.87 | 13.10 | 14.33 | 14.96 |
| Cured ..... | 637 | 562 | 530 | 482 | --- |
| Dried anchovies ..... | 812 | 869 | 947 | 853 | 811 |
| Dried jack mackerel ..... | 1,406 | 1,598 | 1,330 | 1,328 | 1,416 |
| Dried "Kombu" and "Wakame"kelp | 2,086 | 2,261 | 2,382 | 2,436 | 2,482 |
| Dried squids ..... | 266 | 246 | 206 | 184 | 167 |
| Fish sausage ..... | 1,175 | 2,196 | 2,848 | 2,467 | 2,451 |
| Kneaded ..... | --- | --- | --- | --- | --- |
| Salted salmons and trouts . | 3,624 | 3,457 | 3,229 | 3,245 | 3,329 |
| Others ..... | --- | --- | --- | --- | --- |
| Whale meat ..... | 976 | 890 | 772 | 572 | 520 |
| Beef ..... | 8,210 | 8,560 | 8,903 | 9,946 | 10,103 |
| Pork ..... | 18,892 | 19,553 | 20,143 | 20,298 | 20,986 |
| Chicken ..... | 11,289 | 11,997 | 12,286 | 13,210 | 14,111 |
| Ham, sausage ..... | 8,577 | 7,992 | 7,705 | 8,007 | 8,212 |
| Milk, eggs ..... | --- | --- | --- | --- | --- |
| Seasonings ..... | 585 | 541 | 523 | 463 | 452 |
| Expense for dining out..... | --- | --- | --- | --- | --- |
| Number of family members ... | 3.86 | 3.80 | 3.78 | 3.77 | 3.80 |

# PRODUCTS PER HOUSEHOLD, 1975～1979

## (2) Farm household

Unit: gram

| Item | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Fishery products | | | | | |
| Fresh and frozen | | | | | |
| Cod, Alaska pollack ..... | 2,410 | 2,430 | 2,250 | 2,110 | 2,200 |
| Flounders, halibuts ..... | 3,260 | 3,330 | 3,090 | 2,710 | 2,930 |
| Jack mackerel ..... | 4,120 | 3,170 | 2,660 | 2,400 | 2,470 |
| Mackerels ..... | 9,720 | 8,870 | 9,850 | 8,720 | 8,090 |
| Salmons. trouts ..... | --- | --- | --- | --- | --- |
| Sardines, anchovies ..... | 5,300 | 6,170 | 7,250 | 5,530 | 5,520 |
| Saury ..... | 4,000 | 2,550 | 2,420 | 3,510 | 4,170 |
| Sea breams ..... | 740 | 710 | 850 | 870 | 890 |
| Shellfishes ..... | 4,480 | 4,640 | 5,140 | 5,200 | 4,700 |
| Shrimp. prawn. crab ..... | 2,490 | 2,220 | 2,140 | 2,370 | 2,340 |
| Skipjack ..... | 3,310 | 3,590 | 3,630 | 4,160 | --- |
| Squids, cuttlefishes ..... | 7,760 | 7,350 | 6,960 | 6,710 | 7,120 |
| Tunas, marlins ..... | 3,570 | 3,570 | 3,780 | 3,950 | 4,030 |
| Yellowtail ..... | 2,090 | 2,390 | 2,230 | 2,390 | 3,230 |
| Others ..... | --- | --- | --- | --- | --- |
| Processed fishery products | | | | | |
| Boiled and dried ..... | 2,530 | 2,560 | 2,590 | 2,530 | 2,650 |
| Canned ..... | 4,220 | 4,010 | 4,160 | 3,920 | 3,930 |
| Cured ..... | 400 | 390 | 840 | 850 | --- |
| Dried "nori" ..... | --- | --- | --- | --- | --- |
| Dried "kombu"and"Wakame"kelp | 2,130 | 2,220 | 2,260 | 2,140 | --- |
| Dried squids ..... | 500 | 500 | 520 | 540 | 570 |
| Fish sausage ..... | 3,320 | 3,190 | 2,460 | 1,650 | 1,580 |
| Kneaded ..... | 12,500 | 12,000 | 11,380 | 10,650 | 10,260 |
| Salted salmons and trouts | 4,030 | 3,990 | 3,590 | 3,260 | 3,780 |
| Others ..... | --- | --- | --- | --- | --- |
| Whale meat ..... | 1,240 | 1,160 | --- | --- | --- |
| Beef ..... | 4,050 | 4,100 | 4,640 | 5,090 | 5,150 |
| Pork ..... | 13,770 | 13,650 | 14,170 | 14,540 | 16,600 |
| Chicken ..... | 10,390 | 10,810 | 11,580 | 11,890 | 12,810 |
| Ham, sausage ..... | 4,170 | 4,680 | 6,780 | 6,360 | 6,860 |
| Milk, eggs ..... | --- | --- | --- | --- | --- |
| Seasonings ..... | 1,040 | 1,010 | 1,130 | 1,100 | --- |
| Expense for dining out . | --- | --- | --- | --- | --- |
| Number of family members | 4.56 | 4.52 | 4.49 | 4.48 | 4.45 |

# Ⅲ－10 AVERAGE CONSUMPTION IN VALUE OF FISHERY

## (1) Workers household (Cities With population of 50,000 and over)

Unit: yen

| Item | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Net income ..... | 2,834,364 | 3,121,176 | 3,418,882 | 3,672,984 | 3,963,132 |
| Food expense ..... | 666,350 | 732,876 | 775,067 | 807,652 | 836,881 |
| Fishery products ..... | 103,432 | 114,666 | 122,292 | 128,373 | 131,499 |
| Fresh and frozen ..... | 54,806 | 61,095 | 64,096 | 67,118 | 69,477 |
| Cod, Alaska pollack ..... | 582 | 605 | 497 | 512 | 518 |
| Flounders, halibuts ..... | 2,318 | 2,625 | 2,870 | 2,995 | 3,137 |
| Jack mackerel ..... | 2,460 | 2,956 | 2,814 | 2,495 | 2,756 |
| Mackerels ..... | 1,171 | 1,202 | 1,480 | 1,357 | 1,226 |
| Salmons, trouts ..... | 1,345 | 1,616 | 1,458 | 1,415 | 1,413 |
| Sardines, anchovies ..... | 741 | 917 | 1,153 | 916 | 837 |
| Saury ..... | 1,275 | 1,168 | 1,369 | 1,692 | 1,634 |
| Sea breams ..... | 1,634 | 1,828 | 1,862 | 2,114 | 2,257 |
| Shellfishes ..... | 3,864 | 4,573 | 5,173 | 5,332 | 5,381 |
| Shrimp, prawn, crab ..... | 6,819 | 7,129 | 7,297 | 8,305 | 8,614 |
| Skipjack ..... | 1,283 | 1,719 | 1,774 | 1,784 | 1,874 |
| Squids, cuttlefishes ..... | 5,670 | 6,038 | 6,529 | 6,608 | 6,871 |
| Tunas, marlins ..... | 6,740 | 7,625 | 8,130 | 8,790 | 8,768 |
| Yellowtail ..... | 3,860 | 4,598 | 4,497 | 4,974 | 5,382 |
| Others ..... | 15,044 | 16,496 | 17,192 | 17,829 | 11,354 |
| Processed fishery products .. | 47,603 | 52,521 | 57,169 | 60,420 | 61,224 |
| Boiled and dried anchovies | 743 | 758 | 754 | 810 | 793 |
| Canned ..... | 2,139 | 2,261 | 2,544 | 2,716 | 2,734 |
| Cured ..... | 1,367 | 1,363 | 1,447 | 1,415 | --- |
| Dried "nori" ..... | 4,372 | 4,608 | 4,633 | 5,067 | 5,547 |
| Dried "Kombu" and "Wakame" kelp | 2,164 | 2,312 | 2,299 | 2,285 | 2,387 |
| Dried squids ..... | 585 | 602 | 583 | 578 | 606 |
| Fish sausage ..... | 594 | 1,311 | 1,941 | 1,709 | 1,682 |
| Kneaded ..... | 9,083 | 9,693 | 10,596 | 11,345 | 11,484 |
| Salted salmons and trouts . | 5,259 | 5,501 | 6,016 | 6,634 | 6,896 |
| Others ..... | 21,277 | 24,112 | 25,356 | 27,861 | --- |
| Whale meat ..... | 1,023 | 1,050 | 1,027 | 835 | 798 |
| Beef ..... | 19,880 | 23,304 | 24,627 | 27,675 | 28,904 |
| Pork ..... | 26,316 | 29,612 | 29,643 | 29,429 | 29,090 |
| Chicken ..... | 11,726 | 13,479 | 13,767 | 13,529 | 13,762 |
| Ham, sausage ..... | 11,267 | 11,710 | 11,967 | 12,619 | 13,137 |
| Milk, eggs ..... | 41,409 | 42,031 | 43,079 | 41,543 | 42,661 |
| Seasonings ..... | 1,114 | 1,105 | 1,070 | 998 | 975 |
| Expense for dining out ..... | 81,235 | 93,208 | 103,909 | 114,408 | 126,467 |
| Number of family members ... | 3.86 | 3.80 | 3.78 | 3.77 | 3.80 |

# PRODUCTS PER HOUSEHOLD, 1975~1979

## (2) Farm household

Unit: yen

| Item | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|
| Net income ..... | 3,414,400 | 3,662,000 | 3,984,500 | 4,221,100 | 4,417,700 |
| Food expense ..... | 687,400 | 747,600 | 798,400 | 828,500 | 855,100 |
| Fishery products ..... | 99,068 | 110,073 | 120,725 | 123,342 | 130,418 |
| Fresh and frozen ..... | 52,132 | 59,209 | 68,089 | 70,689 | 74,641 |
| Cod, Alaska pollack ..... | 1,100 | 1,234 | 1,421 | 1,416 | 1,494 |
| Flounders, halibuts ..... | 2,172 | 2,561 | 2,901 | 2,832 | 3,034 |
| Jack mackerel ..... | 2,225 | 2,316 | 2,348 | 2,336 | 2,530 |
| Mackerels ..... | 2,887 | 3,172 | 3,862 | 3,257 | 3,234 |
| Salmons, trouts ..... | --- | --- | --- | --- | --- |
| Sardines, anchovies ..... | 1,430 | 1,762 | 2,096 | 1,558 | 1,633 |
| Saury ..... | 1,743 | 1,434 | 1,765 | 2,336 | 2,430 |
| Sea breams ..... | 1,143 | 1,350 | 1,792 | 1,841 | 1,965 |
| Shellfishes ..... | 1,852 | 2,107 | 2,729 | 3,009 | 2,942 |
| Shrimp, prawn, crab..... | 3,332 | 3,508 | 4,007 | 4,602 | 4,901 |
| Skipjack ..... | 2,479 | 2,891 | 3,493 | 3,611 | 3,599 |
| Squids, cuttlefishes ..... | 5,662 | 6,271 | 6,841 | 6,933 | 7,656 |
| Tunas, marlins ..... | 6,563 | 7,730 | 8,801 | 9,416 | 9,708 |
| Yellowtail ..... | 3,342 | 4,154 | 4,164 | 4,744 | 5,551 |
| Others ..... | 16,202 | 18,719 | 21,869 | 22,798 | 23,964 |
| Processed fishery products.. | 45,790 | 49,623 | 52,636 | 52,653 | 55,777 |
| Boiled and dried anchovies . | 2,480 | 2,751 | 2,981 | 3,131 | 3,453 |
| Canned ..... | 2,152 | 2,157 | 2,686 | 2,502 | 2,563 |
| Cured ..... | 909 | 965 | 1,718 | 1,838 | 2,005 |
| Dried "nori" ..... | 4,455 | 4,333 | 4,601 | 4,928 | 5,126 |
| Dried "Kombu"and"Wakame"kelp | 2,867 | 3,088 | 3,211 | 3,203 | 3,380 |
| Dried squids ..... | 1,251 | 1,426 | 1,511 | 1,735 | 1,919 |
| Fish sausage ..... | 1,835 | 1,838 | 1,486 | 998 | 1,009 |
| Kneaded ..... | 8,220 | 8,783 | 8,898 | 9,498 | 9,655 |
| Salted salmons and trouts. | 4,947 | 5,304 | 5,872 | 5,734 | 6,686 |
| Others ..... | 16,674 | 19,008 | 19,672 | 19,086 | 19,981 |
| Whale meat ..... | 1,146 | 1,241 | --- | --- | --- |
| Beef ..... | 9,315 | 10,813 | 12,145 | 13,860 | 14,615 |
| Pork ..... | 17,098 | 18,966 | 20,384 | 21,231 | 21,806 |
| Chicken ..... | 9,289 | 10,450 | 11,424 | 11,988 | 12,182 |
| Ham, sausage ..... | 5,177 | 6,204 | 7,845 | 8,253 | 8,938 |
| Milk, eggs ..... | 37,687 | 37,686 | 39,342 | 37,428 | 37,565 |
| Seasonings ..... | 1,797 | 1,821 | 2,042 | 2,120 | 2,291 |
| Expense for dining out..... | 41,876 | 45,384 | 51,832 | 61,310 | 67,123 |
| Number of family members .. | 4.56 | 4.52 | 4.49 | 4.48 | 4.45 |

# Ⅳ ECONOMY OF FISHERY ESTABLISHMENTS

## Ⅳ－1 NATIONAL AVERAGE OF FISHERIES HOUSEHOLD ECONOMY, 1975～1979

| Items | Unit | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|---|
| Number of family members | Person | 4.5 | 4.5 | 4.5 | 4.3 | 4.3 |
| Number of non-powered fishing boats used | Boat | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Number of powered fishing boats used. | " | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| Tonnage of powered fishing boats used. | Ton | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 |
| Number of fishing days | Day | 145 | 146 | 148 | 151 | 150 |
| Number of workers on the sea | Person | 460 | 457 | 468 | 478 | 478 |
| Working hours on the sea | Hours | 2,551 | 2,589 | 2,591 | 2,552 | 2,558 |
| Catches | kg | 9,423 | 9,688 | 10,871 | 11,388 | 9,916 |
| Price of fish cought | Yen/kg | 322 | 369 | 379 | 358 | 453 |
| Fishery earning | 1000 yen | 3,142.7 | 3,675.4 | 4,195.0 | 4,158.9 | 4,528.3 |
| Non-fishery earning | " | 348.4 | 378.4 | 484.7 | 503.6 | 458.8 |
| Non-business earning | " | 1,251.7 | 1,377.5 | 1,532.7 | 1,641.7 | 1,885.4 |
| Fishery expenditure | " | 1,337.2 | 1,611.4 | 1,874.0 | 1,895.6 | 2,135.4 |
| Employees wages | " | 289.3 | 347.4 | 436.0 | 417.9 | 454.4 |
| Maintenance of fishing boats | " | 118.5 | 138.0 | 163.5 | 158.1 | 165.4 |
| Expenditure for fishing gears | " | 145.5 | 164.5 | 198.2 | 183.1 | 183.2 |
| Oil | " | 185.3 | 217.5 | 249.7 | 254.3 | 345.7 |
| Miscellaneous facilities | " | 16.5 | 20.9 | 23.1 | 18.9 | 21.9 |
| Depreciation | " | 245.6 | 332.8 | 360.4 | 413.1 | 480.5 |
| Non-fishery business expenditure | " | 154.5 | 189.1 | 243.1 | 284.5 | 243.9 |
| Non-business expenditure | " | 69.6 | 78.2 | 93.7 | 114.4 | 132.6 |
| Household expenditure | " | 2,000.2 | 2,301.9 | 2,552.5 | 2,722.4 | 2,890.9 |
| Taxes, public charges and obligation. | " | 197.6 | 254.4 | 331.8 | 389.9 | 443.6 |
| Income of fishery household | " | 3,181.4 | 3,552.8 | 4,001.5 | 4,009.7 | 4,360.6 |
| Business income | " | 1,999.3 | 2,253.5 | 2,562.6 | 2,482.4 | 2,607.8 |
| Fishery income | " | 1,805.4 | 2,064.1 | 2,321.0 | 2,263.3 | 2,392.9 |
| Non-fishery income | " | 193.9 | 189.4 | 241.6 | 219.1 | 214.9 |
| Non-business income | " | 1,182.1 | 1,299.3 | 1,438.9 | 1,527.3 | 1,752.8 |
| Surplus of fishery household economy. | " | 983.6 | 996.4 | 1,117.2 | 897.4 | 1,026.9 |
| Property | | | | | | |
| Fixed assets | " | 4,197.7 | 6,196.5 | 6,721.6 | 6,980.3 | 7,660.0 |
| Land | " | 420.8 | 1,603.8 | 665.6 | 638.9 | 876.2 |
| Building | " | 2,315.7 | 3,592.4 | 3,810.2 | 3,561.1 | 3,718.3 |
| Hull of fishing boats | " | 501.2 | 708.7 | 762.0 | 966.0 | 1,055.6 |
| Engines of fishing boats | " | 480.7 | 656.1 | 738.6 | 896.7 | 1,018.1 |
| Fishing nets and long lines | " | 163.1 | 209.0 | 225.8 | 246.4 | 277.1 |
| Non-fixed assets | " | 3,334.1 | 4,090.7 | 5,015.5 | 5,614.4 | 6,362.8 |
| Debts | " | 995.6 | 1,119.4 | 1,256.1 | 1,624.5 | 1,887.4 |

Notes: 1) Fishery household in this table refers to the household engaging in fishing with less than 10 tons fishing boat. The data show the average per fishery household.
2) Income of fishery household = Fishery income + Non-fishery business income + Non-business income. Surplus of fishery household economy = Income of fishery household - (Taxes, public charges and obligations + household expenditure)
3) Duration of this statistics is for a calendar year. Property is accounted at the beginning of the year.

# Ⅳ－2 NATIONAL AVERAGE OF SMALL AND MIDDLE SIZE FISHERY ENTERPRISE ECONOMY, 1975～1979

| Item 1), 2) | Unit | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|---|---|---|---|---|---|
| Gross tonnage of fishing boats used | Ton | 101.36 | 99.89 | 98.84 | 94.81 | 93.18 |
| Number of workers on the boat .... | Person | 16 | 16 | 16 | 15 | 14 |
| Earnings from fishery ..... | 1000 yen | 101,261 | 118,634 | 135,329 | 121,128 | 124,780 |
| Fishery expenditures ..... | " | 99,678 | 111,520 | 126,702 | 120,538 | 121,091 |
| Employees wages ..... | " | 37,992 | 44,574 | 51,404 | 47,080 | 45,946 |
| Maintenance of fishing boats .. | " | 8,040 | 8,719 | 9,354 | 9,257 | 8,852 |
| Expenditure for fishing gears . | " | 4,577 | 4,596 | 4,736 | 4,355 | 4,230 |
| Oil ..... | " | 14,036 | 15,349 | 15,408 | 13,986 | 17,515 |
| Bait ..... | " | 3,010 | 3,437 | 4,015 | 4,165 | 3,851 |
| Ice ..... | " | 1,095 | 1,222 | 1,346 | 1,386 | 1,308 |
| Fish container ..... | " | 1,931 | 1,837 | 1,692 | 1,534 | 1,598 |
| Miscellaneous materials ..... | " | 1,140 | 1,241 | 1,368 | 1,512 | 1,431 |
| Miscellaneous facilities ..... | " | 169 | 273 | 292 | 220 | 232 |
| Rents and charge ..... | " | 1,627 | 1,866 | 2,314 | 2,373 | 2,463 |
| Brokerage ..... | " | 4,217 | 4,964 | 5,787 | 5,082 | 5,380 |
| Costs for business ..... | " | 4,693 | 5,088 | 6,189 | 6,467 | 6,078 |
| Tax upon fishery business ..... | " | 509 | 591 | 744 | 1,008 | 965 |
| Other ..... | " | 4,016 | 4,157 | 5,786 | 5,558 | 6,205 |
| Depreciation ..... | " | 12,626 | 13,606 | 16,268 | 16,555 | 15,037 |
| Estimated family wages ..... | " | 935 | 1,074 | 1,214 | 1,343 | 1,403 |
| Fishery profit 3) ..... | " | 648 | 6,040 | 7,413 | Δ 753 | 2,286 |
| Assets (final) ..... | " | 119,959 | 127,017 | 149,556 | 159,038 | 160,532 |
| Fixed assets ..... | " | 67,503 | 70,694 | 76,727 | 81,428 | 87,578 |
| Fixed assets for fishery .... | " | 46,378 | 47,722 | 52,680 | 51,770 | 60,053 |
| Non-fixed assets ..... | " | 52,456 | 56,368 | 72,829 | 77,610 | 72,954 |
| Liabilities (final) ..... | " | 112,055 | 115,109 | 134,144 | 143,463 | 144,472 |
| Net worth ..... | " | 7,904 | 11,908 | 15,412 | 15,573 | 16,060 |
| Net profit ..... | " | Δ 586 | 3,927 | 5,483 | 2,437 | 2,275 |
| Interest on liabilities ..... | " | 6,662 | 6,666 | 6,361 | 6,196 | 6,413 |
| Sales profit 4) ..... | % | 0.6 | 5.1 | 5.5 | Δ 0.6 | 1.8 |
| Costs for physical expenditure ... | 1000 yen | 54,301 | 66,362 | 59,235 | 57,824 | 59,005 |
| Added value ..... | " | 51,200 | 64,657 | 76,094 | 63,304 | 65,775 |
| Added value per worker ..... | " | 3,200 | 4,041 | 4,756 | 4,192 | 4,568 |
| Wage per worker ..... | " | 2,375 | 2,786 | 3,213 | 3,139 | 3,282 |
| Capital equipment ratio 5) ..... | " | 3,471 | 3,490 | 3,665 | 4,089 | 4,544 |
| Ratio of net worth out of total capital ..... | % | 6.6 | 9.4 | 10.3 | 9.8 | 10.0 |
| Ratio of profit out of total capital ..... | " | Δ 0.5 | 3.2 | 4.0 | 1.6 | 1.4 |

Notes: 1) Small and middle size fishery enterprise refers to the enterprise engaging in fishery with fishing boats of 10 gross tonnage and over but excluding the big enterprises with capital paid of 100 million yen and over.
2) Data show an average per fishery enterprise.
3) Fishery profit = Earnings from fishery - fishery expenditures - estimated family wages.
4) Sales profit = Fishery profit ÷ earnings from fishery x 100.
5) Capital equipment ratio means fixed assets for fishery per worker engaged normally in fisheries.

# REFERENCE TABLES

# 1 CATCH BY COUNTRY OF THE WORLD, 1974～1978

Unit: Thousand metric tons

| Country | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|
| Total | 68,895 | 68,608 | 72,113 | 71,213 | 72,380 |
| Japan | 10,805 | 10,524 | 10,662 | 10,733 | 10,752 |
| U.S.S.R. | 9,236 | 9,936 | 10,134 | 9,352 | 8,930 |
| China | 4,400 | 4,500 | 4,600 | 4,700 | 4,660 |
| U.S.A. | 2,929 | 2,898 | 3,175 | 3,102 | 3,512 |
| Peru | 4,145 | 3,447 | 4,343 | 2,530 | 3,365 |
| Norway | 2,645 | 2,550 | 3,435 | 3,562 | 2,647 |
| India | 2,255 | 2,328 | 2,400 | 2,540 | 2,368 |
| Republic of Korea | 2,023 | 2,133 | 2,405 | 2,419 | 2,351 |
| Thailand | 1,516 | 1,553 | 1,660 | 1,778 | 2,264 |
| Denmark | 1,835 | 1,767 | 1,911 | 1,807 | 1,745 |
| Chile | 1,158 | 929 | 1,406 | 1,285 | 1,698 |
| Indonesia | 1,336 | 1,390 | 1,483 | 1,545 | 1,655 |
| Korea D.P.R.P. | 1,400 | 1,500 | 1,600 | 1,600 | 1,600 |
| Iceland | 945 | 995 | 986 | 1,374 | 1,579 |
| Philippin | 1,371 | 1,443 | 1,393 | 1,511 | 1,558 |
| Canada | 1,037 | 1,021 | 1,132 | 1,280 | 1,407 |
| Spain | 1,510 | 1,515 | 1,475 | 1,455 | 1,380 |
| Viet Nam | 1,014 | 1,014 | 1,014 | 1,014 | 1,014 |
| Brazil | 740 | 772 | 708 | 790 | 858 |
| France | 808 | 806 | 806 | 760 | 796 |
| Mexico | 442 | 499 | 572 | 670 | 752 |
| Bangladesh | 822 | 823 | 826 | 835 | 640 |
| South Africa | 650 | 637 | 638 | 603 | 628 |
| Poland | 679 | 801 | 750 | 665 | 571 |
| Peninsular Malaysia | 442 | 377 | 412 | 499 | 566 |
| England and Wales | 534 | 497 | 520 | 525 | 548 |
| Burma | 434 | 485 | 502 | 519 | 541 |
| Argentina | 296 | 229 | 281 | 392 | 537 |
| Nigeria | 473 | 478 | 495 | 506 | 519 |
| Scotland | 538 | 468 | 503 | 452 | 479 |
| Ecuador | 174 | 263 | 815 | 476 | 476 |

# 2 CATCH BY SPECIES OF THE WORLD, 1974~1978

Unit: Thousand metric tons

| | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|
| Total | 68,895 | 68,608 | 72,113 | 71,213 | 72,380 |
| Carps, barbels and other cyprinids | 519 | 563 | 559 | 583 | 561 |
| Tilapias and other cichlids..... | 230 | 286 | 301 | 352 | 362 |
| Miscellaneous freshwater fishes... | 5,258 | 5,560 | 5,329 | 5,385 | 5,177 |
| Sturgeons, padolefishes, etc. .... | 25 | 27 | 31 | 32 | 28 |
| River eels ..... | 55 | 55 | 67 | 71 | 97 |
| Salmons, trouts, smelts, etc. .... | 502 | 551 | 556 | 633 | 621 |
| Shads, milkfishes, etc. ..... | 745 | 757 | 780 | 762 | 838 |
| Miscellaneous diadromous fishes .. | 148 | 149 | 122 | 86 | 91 |
| Flounders, halibuts, soles, etc. . | 1,176 | 1,145 | 1,123 | 1,082 | 1,212 |
| Cods, hakes, haddocks, etc. ..... | 12,681 | 11,850 | 12,136 | 10,596 | 10,450 |
| Redfishes, bases, congers, etc. .. | 4,917 | 5,064 | 5,022 | 5,367 | 5,216 |
| Jacks, mullets, sauries, etc. .... | 5,353 | 5,854 | 7,253 | 8,718 | 8,175 |
| Herrings, sardines, anchovies etc. | 14,040 | 13,754 | 15,303 | 12,891 | 13,917 |
| Tunas, bonitos, billfishes, etc. . | 2,253 | 2,095 | 2,294 | 2,355 | 2,522 |
| Mackerels,sneks,cutlassfishes,etc. | | 3,606 | 3,300 | 3,557 | 4,057 |
| Sharks, rays, chimaeras, etc. .... | 559 | 590 | 565 | 560 | 606 |
| Miscellaneous marine fishes ..... | 9,643 | 9,382 | 9,781 | 9,989 | 10,047 |
| Freshwater crustaceans ..... | 62 | 52 | 47 | 48 | 44 |
| Sea-spiders, crabs, etc. ..... | 407 | 382 | 405 | 449 | 494 |
| Lobsters, spiny-rock lobsters,etc. | 94 | 95 | 98 | 96 | 106 |
| Squat-lobsters, nephrops, etc. ... | 64 | 77 | 105 | 87 | 86 |
| Shrimps, prawns, etc. ..... | 1,321 | 1,295 | 1,414 | 1,446 | 1,474 |
| Krill,plankonic crustaceans,etc. . | 1 | 1 | 3 | 123 | 129 |
| Miscellaneous marine crustaceans.. | 66 | 60 | 52 | 61 | 54 |
| Freshwater molluses ..... | 46 | 55 | 125 | 133 | 224 |
| Abalones, winkles, conchs, etc. .. | 57 | 67 | 65 | 70 | 71 |
| Oysters ..... | 739 | 845 | 904 | 879 | 900 |
| Mussels ..... | 376 | 462 | 478 | 517 | 502 |
| Scallops, pectens, etc. ..... | 238 | 284 | 361 | 405 | 431 |
| Clams, cockles, arkshells, etc. .. | 727 | 704 | 759 | 830 | 833 |
| Squids,cuttlefishes,octopuses,etc. | 1,074 | 1,175 | 1,179 | 1,195 | 1,285 |
| Miscellaneous marine molluscs .... | 184 | 187 | 168 | 150 | 138 |
| Porpoises, dolphins, etc. ..... | 3 | 3 | 4 | 4 | 4 |
| Miscellaneous aquatic mammals .... | 2 | 2 | 2 | 2 | 2 |
| Frogs and other amphibians ..... | 2 | 1 | 1 | 1 | 1 |
| Turtles and other reptiles ..... | 7 | 8 | 7 | 7 | 5 |
| Sea-quirts and other tunicates ... | 5 | 8 | 8 | 7 | |
| Horseshoe crabs and other arachnoids | 0 | 0 | 0 | 0 | 0 |
| Sea-urchins, sea-cucumbers, etc.... | 49 | 40 | 57 | 62 | 62 |
| Miscellaneous aquatic invertebrates | 15 | 19 | 37 | 90 | 105 |
| Pearls,mother-of-pearl,shells,etc. | 7 | 6 | 6 | 8 | 5 |
| Corals ..... | 0 | 0 | 0 | 0 | 0 |
| Sponges ..... | 0 | 0 | 0 | 0 | 0 |
| Aquatic bird guano, eggs, etc. ... | 25 | 32 | 4 | 39 | 34 |
| Brown seaweeds ..... | 896 | 799 | 893 | 921 | 783 |
| Red seaweeds ..... | 558 | 460 | 457 | 470 | 546 |
| Green seaweeds and other algae ... | 2 | 2 | 3 | 2 | 3 |
| Miscellaneous aquatic plants ..... | 90 | 87 | 86 | 96 | 92 |

# APPENDIX

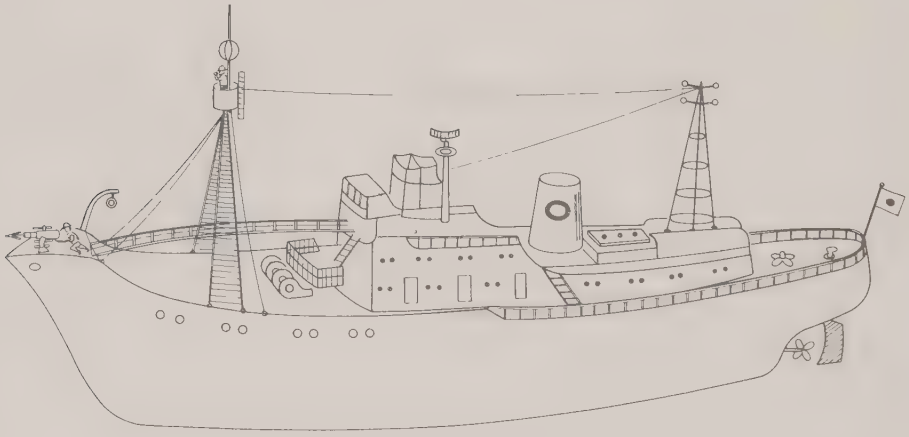
# ILLUSTRATION OF TYPES OF FISHERIES

## 1. Mother Ship Type Whaling

Catcher boat

Mother ship

Catcher boat

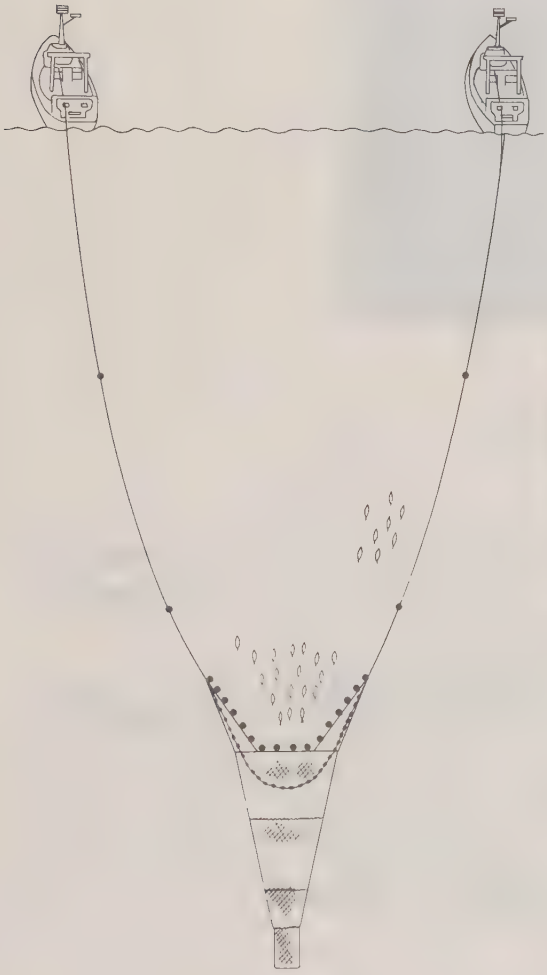


## 2. Distant Water Trawl

1500 Tonnage type stern trawler

Large type stern trawler

## 3. Large Trawl in East China Sea

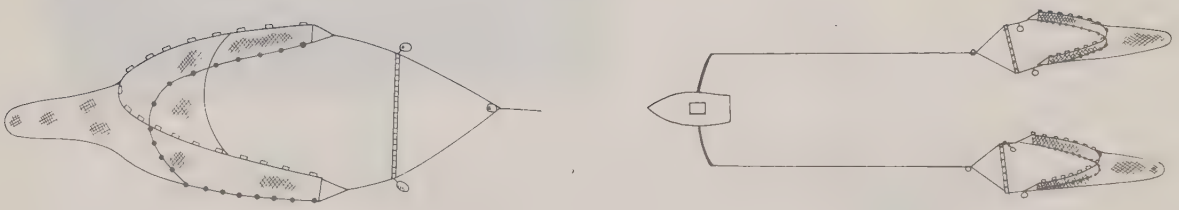


## 4. Medium Trawl

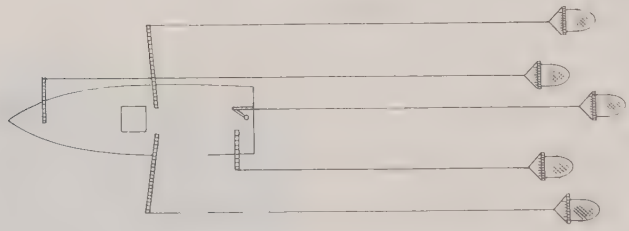
124 Tonnage type stern trawler

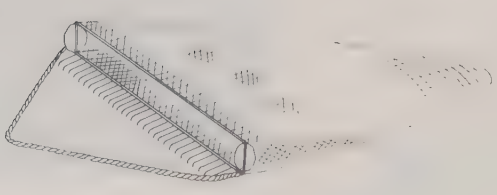
## 5. Small Trawl

Small trawler for shrimps

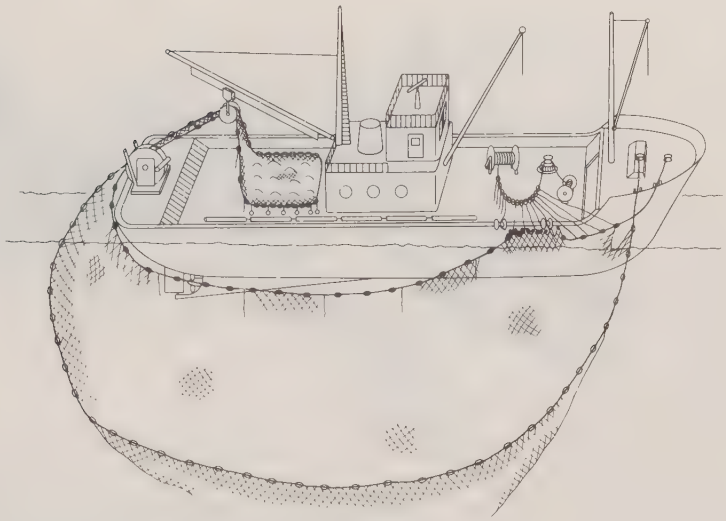


## 6. Small Trawl With Drag Nets for Scalop

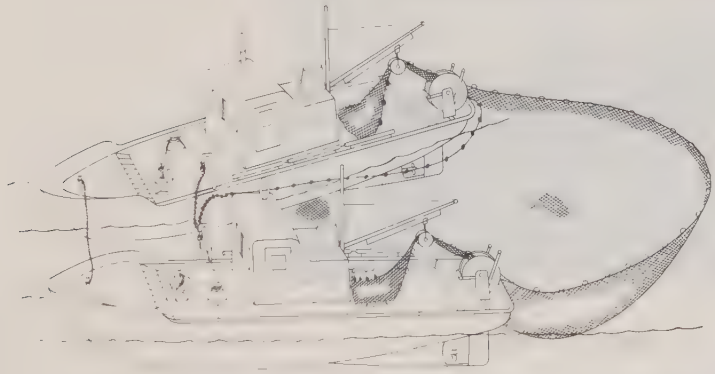




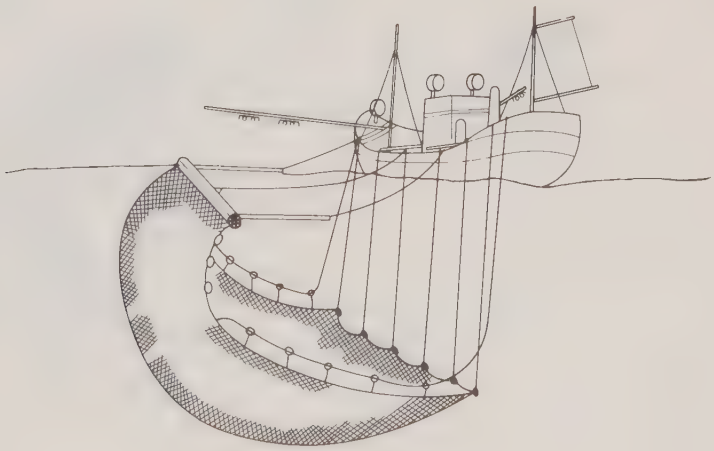
7. Purse Seine (One Boat Operation)



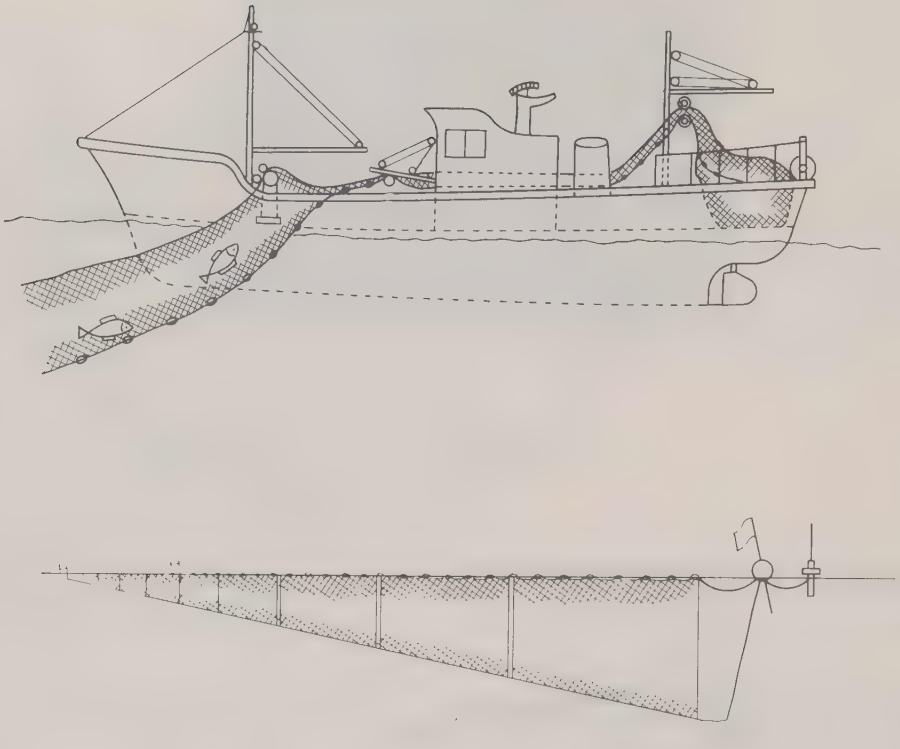
8. Purse Seine (Two Boats Operation)



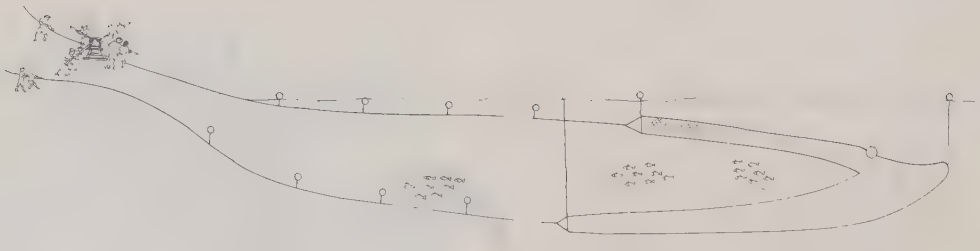
9. Saury Stick-Held-Dip Net



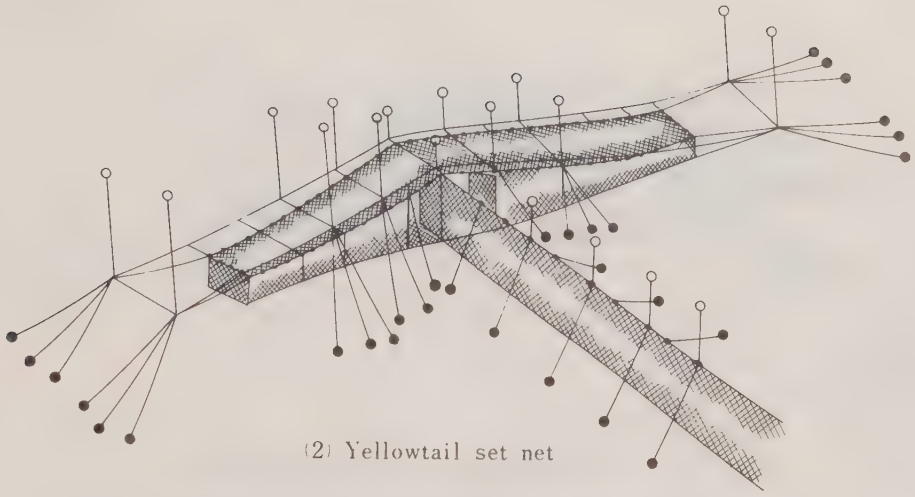
10. Salmon Drift Gill Net



11. Beach Seine

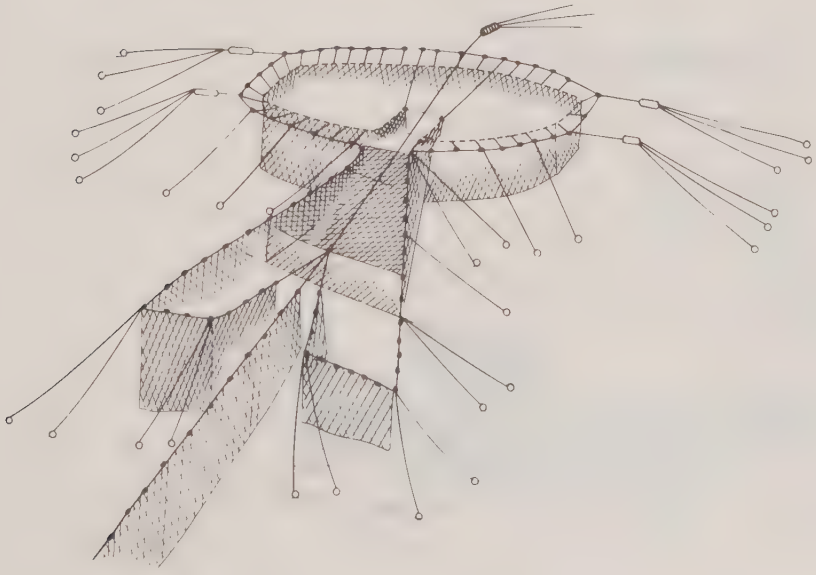


(1) Salmon set net

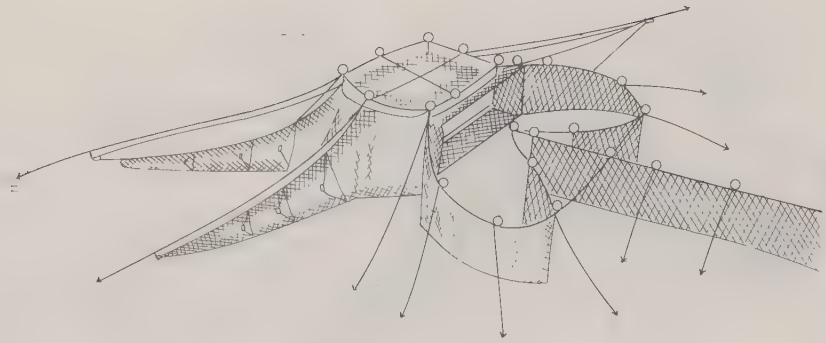


(2) Yellowtail set net

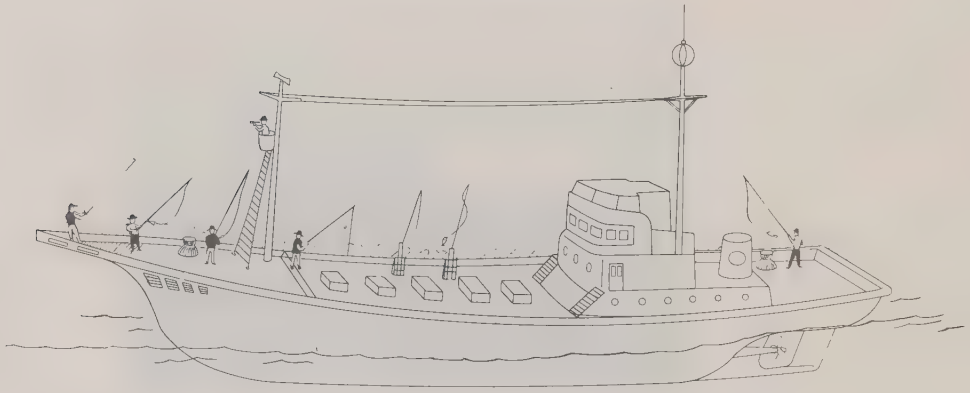
(3) Sardine set net



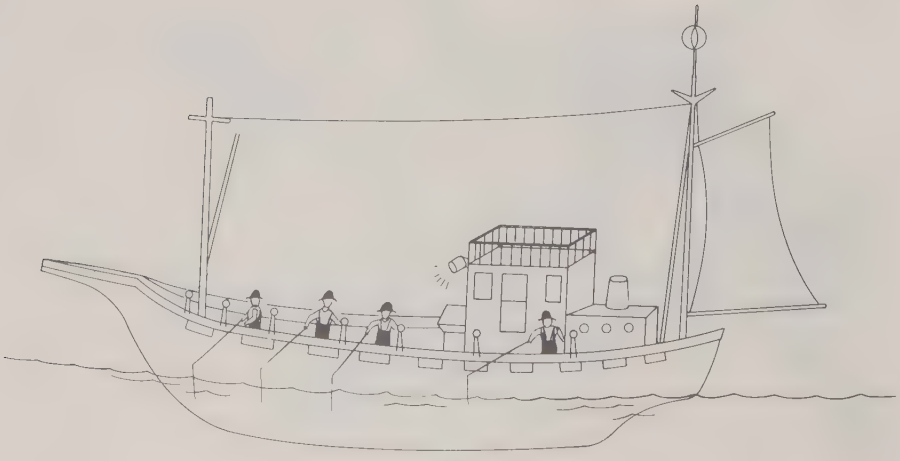
12. Small Set Net



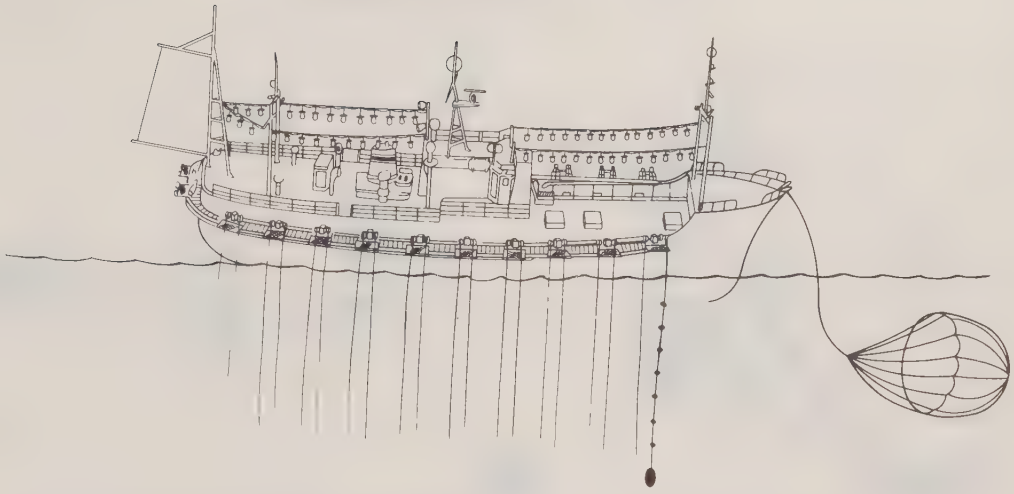
13. Skipjack Pole-and-Line



14. Mackerel Pole-and-Line

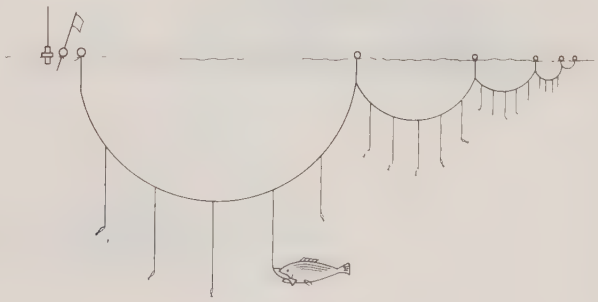


15. Squid Angling



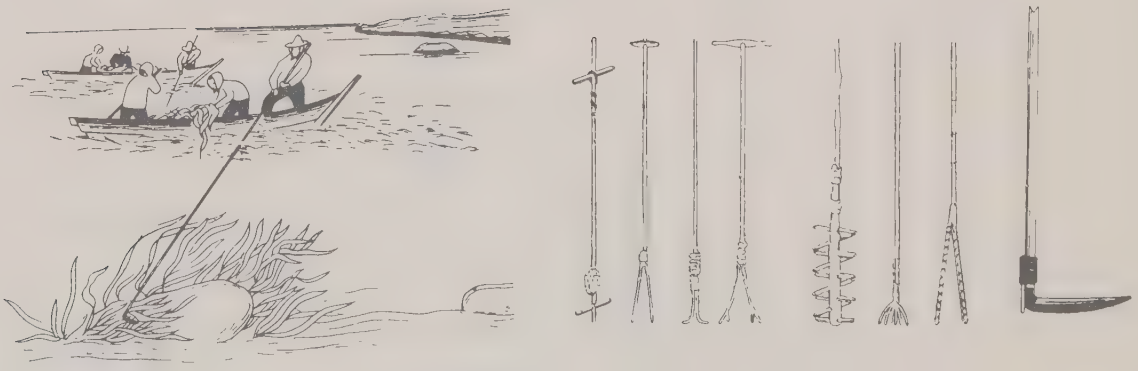
16. Other Angling (Trolling)

17. Tuna Long Line



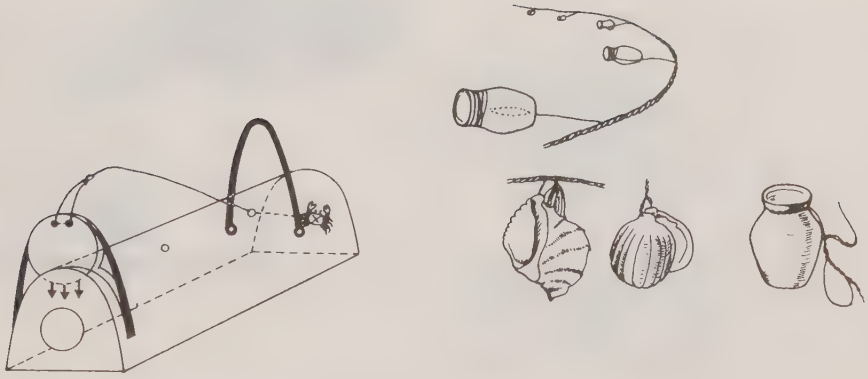
## 18. Shellfish Collecting

## 19. Seaweed Collecting

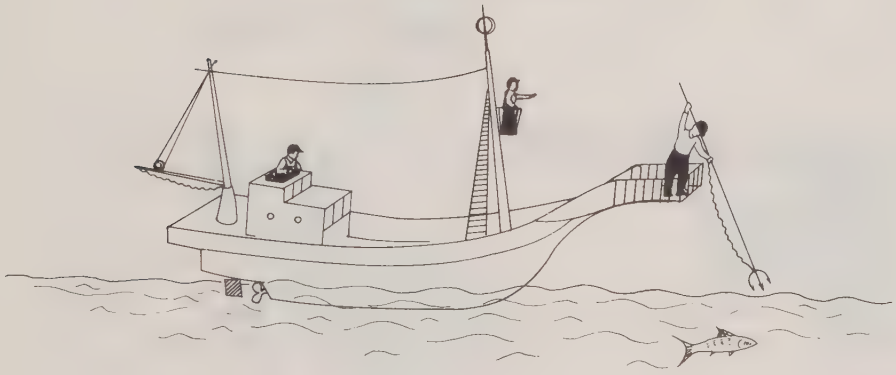


## 20. Other Fisheries

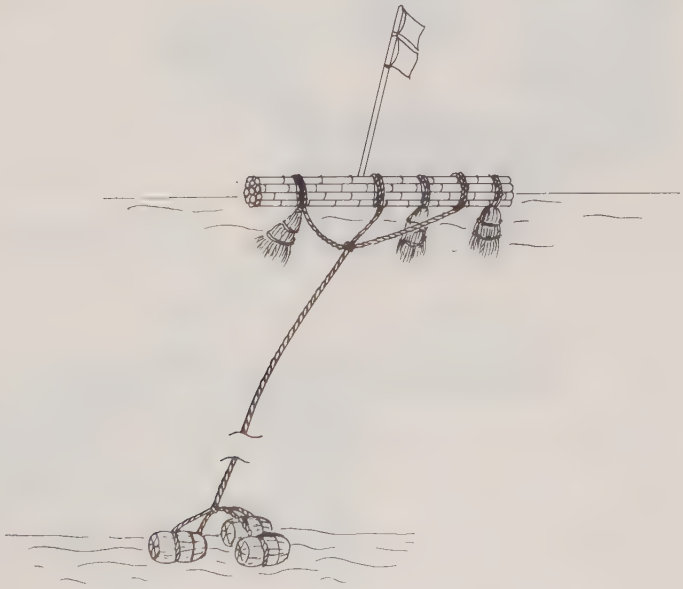
(1) Traps for octopus



(2) Dart

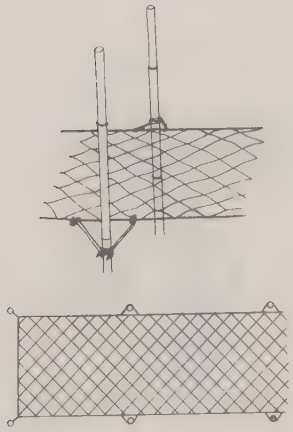


(3) "Tuke" luring fishery



## 21. "Nori" Laver Culture

"Nori" laver culture by stakes

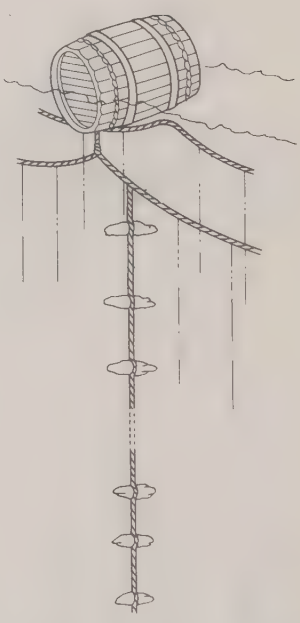


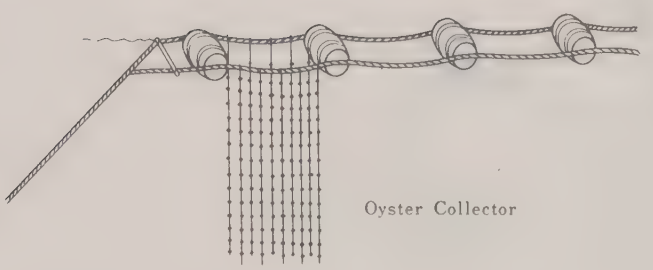
Spore collector with bamboo screen

"Nori" larver culture by floating nets

## 22. Oyster Culture

Long line type

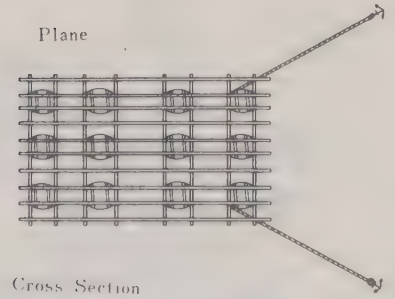




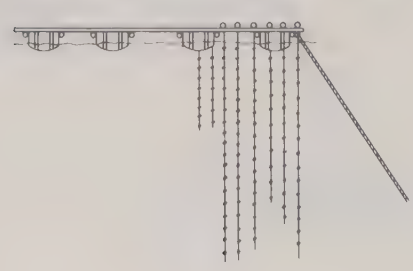
Oyster Collector

Raft hanging type

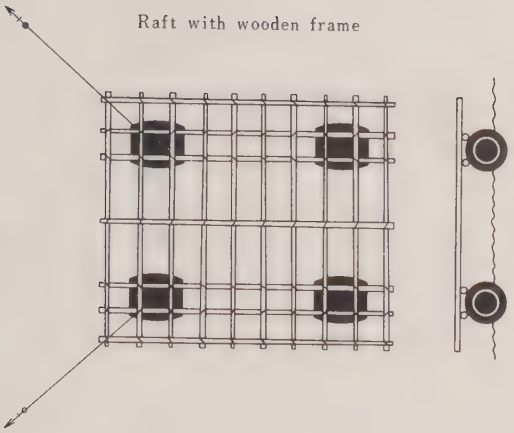
Plane

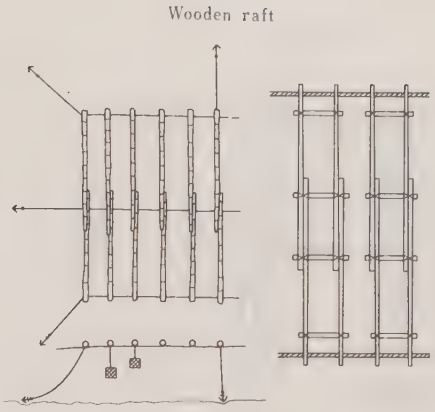


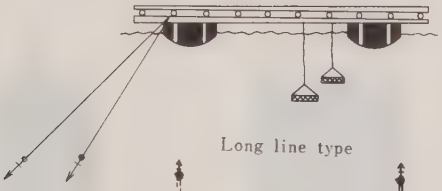
Cross Section

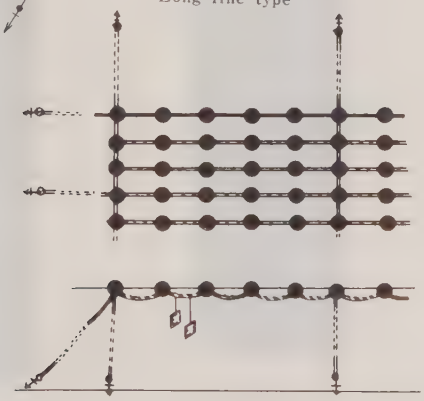


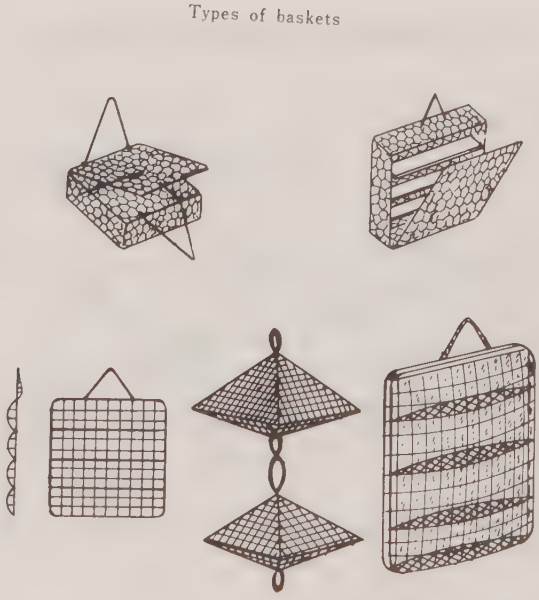
## 23. Pearl Culture



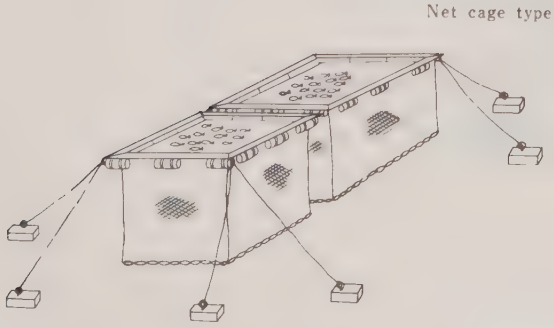





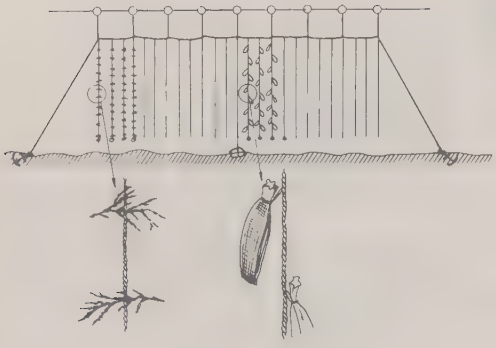




## 24. Yellowtail Culture

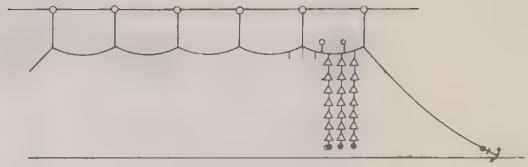


## 25. Scalop Culture

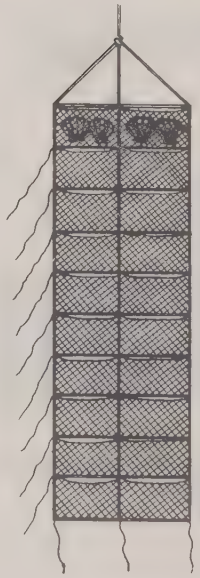
Seed collector



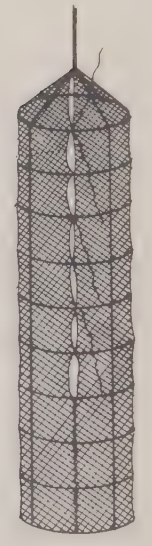
Long line type



Pocket net type

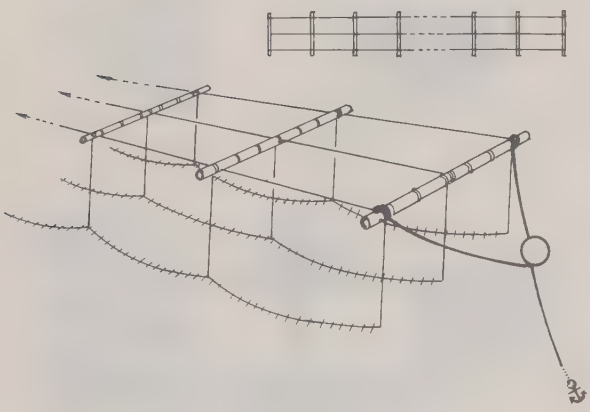


Basket type

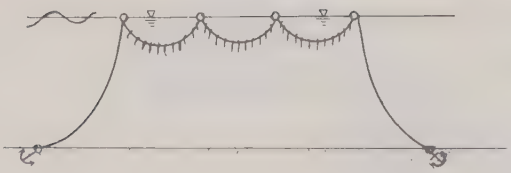


## 26. "Wakame" Seaweed Culture

Raft type



Long line type



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